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**TABLE OF THERMODYNAMIC PROPERTIES  
AND CHEMICAL COMPOSITION OF NITROGEN  
IN CHEMICAL EQUILIBRIUM INCLUDING SECOND VIRIAL CORRECTIONS  
FROM 1600°K TO 15,000°K**

**Joseph Hilsenrath and Max Klein  
National Bureau of Standards  
Washington, D. C.**

**April 1966**

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## FOREWORD

This report was prepared under Delivery Order DO(40-600)64-195 and supersedes AEDC-TDR-63-162, which has a similar title. It represents a considerable augmentation of Table H which now includes the equilibrium concentrations (given as mole fractions) in addition to the thermodynamic properties previously tabulated. Aside from this and the changed format, the properties have been started at 1600°K instead of 2000°K. Throughout most of the temperature and density range, the properties are identical with those given in the earlier report. Between 5000 and 10,000°K at the higher density, the values are slightly different. This difference results from the use of improved thermal functions which are now consistent with those used for the work on air as represented in AEDC-TDR-65-58.

The authors wish to express their appreciation for the assistance rendered by Mrs. Ruth Varner in carrying through certain modifications of the computer program, and Mrs. Carla G. Messina who is responsible for most of the figures and for the performance of many side calculations incidental to checking out the main computing program. We are indebted to Mr. Lester Haar for supplying unpublished values of ideal-gas thermodynamic functions for certain species and to Dr. Harold W. Woolley for invaluable support, cooperation, and advice, over a period of years.

This technical report has been reviewed and is approved.

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# ABSTRACT

Tables for the thermodynamic properties for nitrogen are presented which take into account the effect of dissociation and ionization and the limiting-law Debye-Hückel and second virial corrections, upon the thermodynamic properties and the equilibrium compositions. Values are tabulated from 1600°K in steps of 100°K to 15,000°K at close spacings in the logarithm of the density [ $\log_{10} \rho/\rho_0 = -7.0 (0.2) 2.2$ ] for the compressibility factor  $Z = PV/RT$ ; the dimensionless functions for: internal energy,  $E/RT$ ; enthalpy,  $H/RT$ ; entropy,  $S/R$ ;  $\log_{10} P$  (atm) and  $Z^* = \sum C_i$  and the mole fractions of the species in chemical equilibrium. The underlying equations and the input data are discussed briefly. The effects of the real gas corrections on the equilibrium properties are illustrated graphically. The equilibrium composition is given for selected temperatures over the tabulated density range. The wide range of temperatures and densities over which the thermodynamic properties have been tabulated make the tables useful in a variety of engineering design and test programs, and in scientific research and development.

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## SECTION I INTRODUCTION

The thermodynamic properties of nitrogen in chemical equilibrium are presented at 100° intervals from 2000°K to 15,000°K at uniform spacing in  $\log \rho/\rho_0$  from  $10^{-7}$  to  $10^{2.4}$  times normal density. The equilibrium is computed between six species:  $N_2$ ,  $N_2^+$ ,  $N^+$ ,  $N^{++}$ ,  $N$ , and  $e$  taking into account second virials for the interactions between  $N_2$ - $N_2$ ,  $N$ - $N$ ,  $N_2$ - $N$ ,  $N$ - $N_2^+$ ,  $N_2$ - $N^+$ ,  $N$ - $N^+$ , as well as limiting-law Debye-Huckel corrections.

The program used for the calculations is the same one used for the calculation of equilibrium properties of air reported recently (Ref. 1) in an AEDC report (AEDC-TR-66-58). It is a modification of an earlier method (Ref. 2) to provide for limiting-law Debye-Huckel and second virial corrections. These corrections are based on the detailed formulation of the thermodynamic properties of ionized gases by H. W. Woolley (Ref. 3).

In the sections which follow, the formulation of the properties of a dissociated and ionized gaseous mixture made up of ideal gases is discussed first. The various real-gas effects which are here considered are then applied either as factors or as additive terms to the ideal representation. Among other things this treatment permits the preservation of much of the calculation flow and logic of the ideal-gas computer program. This involves no loss of generality and makes it easier to add still further corrections in the future.

## SECTION II EQUILIBRIUM IN HOMOGENEOUS GASEOUS SYSTEMS

The number of moles of molecules, molecule ions, and atomic ions in a gaseous mixture in chemical equilibrium can be written for the ideal mixture in terms of products of the number of moles of certain reference species,  $C_k$ , and equilibrium constants,  $(K_p)_i$ , as follows:

$$C_i = (K_p)_i \left( \frac{T}{T_0} \right)^{-\omega_i} \left( \frac{\rho}{\rho_0} \right)^{-\omega_i} \prod_k C_k^{r_{ik}} \quad (1)$$

where

$C_k$  = the number of moles per mole of low temperature gas of the reference species ( $k = 1$  for nitrogen atoms and  $k = 2$  for electrons)

$C_i$  = the number of moles per mole of low temperature gas of all but the reference species

$\rho/\rho_o$  = the density relative to the density at standard conditions:  $p_o = 1$  atmosphere,  $T_o = 273.15^\circ\text{K}$

$T$  = the Kelvin temperature

$-\omega_i = 1 - \sum r_{ik}$  = the net change in the number of particles across the reaction

$r_{ik}$  = the incidence matrix representing the multiplicity of the reference species  $k$  present in each ordinary species,  $i$

$(K_p)_i$  = the equilibrium constant for the formation of the  $i^{\text{th}}$  species from the reference species

The equilibrium constant  $K_p$  is computed from the relation

$$K_p = e^{-\Delta F^\circ/RT}$$

where  $\Delta F^\circ$  is the change in the Gibbs free energy across the reaction.

If we set

$$\bar{K}_i = (K_p)_i \left(\frac{T_o}{T}\right)^{\omega_i} \quad (2)$$

Eq. (1) can be written as

$$C_i = \bar{K}_i \left(\frac{\rho}{\rho_o}\right)^{-\omega_i} \prod_k C_k^{r_{ik}} \quad (3)$$

In this equation the equilibrium constant  $\bar{K}_i$  is a function of temperature only. Various real gas effects appear as additive corrections to the free energy of the individual constituents or to the energy difference across the reaction. Since these appear as exponents of  $e$  (the base of the natural logarithm), the corrections can be written as multiplicative factors (Ref. 4) of the equilibrium constant  $\bar{K}_i$ . Thus, for

a mixture of real gases in equilibrium at a fixed temperature, the equation

$$C_i = \Gamma_i^{(1)} \Gamma_i^{(2)} \Gamma_i^{(3)} \dots \Gamma_i^{(n)} \bar{K}_i \left( \frac{\rho}{\rho_0} \right)^{-\omega_i} \prod_k C_k^{r_{ik}} \quad (4)$$

provides such real gas corrections to the equilibrium as can be represented by the density dependent gammas. Woolley has formulated such corrections (Ref. 3) for a number of real gas effects. In the present work we have included only two such corrections - the Debye-Hückel limiting-law and the second virial corrections.

For the Debye-Hückel limiting-law effect on the equilibrium concentrations

$$\begin{aligned} \ln \Gamma_i^{(1)} &= \frac{\pi^{1/2} \epsilon^3}{(D k T)^{3/2}} \left( \frac{N_0}{V_0} \right)^{1/2} \left( \frac{\rho}{\rho_0} \right)^{1/2} (Z_i + Z_i^2) \left( \sum_{\alpha=1}^{n+2} Z_\alpha^2 C_\alpha \right)^{1/2} \\ &= 628145.39 \left( \frac{\rho}{\rho_0} \right)^{1/2} T^{-3/2} (Z_i + Z_i^2) \left( \sum_{\alpha=1}^{n+2} Z_\alpha^2 C_\alpha \right)^{1/2} \end{aligned} \quad (5)$$

where

$C_\alpha$  = the number of moles per mole of any one of the species in the mixture

$Z_i$  = the ionic charge of the  $i^{\text{th}}$  species in protonic units

$\epsilon$  = the electronic charge

$D$  = dielectric constant of the gas, assumed here as unity

$n$  = number of non-reference species

$k$  = Boltzmann constant

$N_0$  = Avagadro's number

$V_0$  = 22414.6 cm<sup>3</sup>/mole

For the second virial correction to the equilibrium concentrations

$$\ln \Gamma_i^{(2)} = \frac{-2}{V_0} \left( \frac{\rho}{\rho_0} \right) \left( \sum_{\alpha=1}^{n+2} C_\alpha B_{\alpha i} - \sum_{k=1}^2 r_{ik} \sum_{\alpha=1}^{n+2} C_\alpha B_{\alpha k} \right) \quad (6)$$

where

$B_{\alpha i}$  = the second virial coefficient in units of cm<sup>3</sup>/mole for the interaction of the  $\alpha^{\text{th}}$  with the  $i^{\text{th}}$  species

$B_{\alpha k}$  = the second virial coefficient (in units of  $\text{cm}^3/\text{mole}$ ) for the interaction of the  $\alpha^{\text{th}}$  species with the  $k^{\text{th}}$  reference species

Corrections have not yet been incorporated for  $\Gamma_i^{(3)}$ ,  $\Gamma_i^{(4)}$ , and  $\Gamma_i^{(5)}$  which represent the influence on the equilibrium of third and higher virial coefficients, of certain ionic effects, and of the shift of the ionization potential. These corrections are believed to have only a small influence on the thermodynamic properties of the mixture in the temperature and density range covered here.

In addition to the above equations, a gas in equilibrium must also obey one or more mass balance equations, and a charge balance equation. These equations can be written in the above notation as

$$X_1 = \sum_{i=1}^{n+1} r_{1i} C_i \quad (7)$$

for the conservation of atomic nuclei, and

$$C_{n+2} = - \sum_{i=1}^n r_{i2} C_i \quad (8)$$

for the charge balance.

In the above equations  $X_1$  represents the maximum possible number of moles of nitrogen atoms (in this case  $X_1 = 2$ ). Values of  $r_{ik}$  are given in Table B for the constituents considered in these calculations. This incidence matrix,  $r_{ik}$ , corresponds to the chemical reactions given in Table A for which Eq. (3) is a representation.

### SECTION III THERMODYNAMIC PROPERTIES OF THE EQUILIBRIUM MIXTURE

The thermodynamic properties of the equilibrium mixture can be computed from the corresponding properties of the individual species (atoms, molecules, atomic and molecular ions, and the electrons) and the number of moles,  $C_i$ , of each species in the mixture. To simplify the presentation the thermodynamic properties of the mixture are written in three parts: the

properties of the corrected mixture considering the species as ideal gases; the contribution,  $\Delta_1$ , of the limiting-law Debye-Hückel effect; and the contribution,  $\Delta_2$ , of the second virial interactions.

Thus, for one mole of gas at standard conditions (273.15°K, 1 atm) we compute for each value of T and  $\rho/\rho_0$ :

the total number of moles per mole of low temperature gas,

$$Z^* = \sum_{i=1}^{n+2} C_i \quad (9)$$

the mole fractions,

$$X_i = C_i / Z^* \quad (10)$$

and the compressibility factor,

$$Z = PV/RT = Z^* + \Delta_1 Z + \Delta_2 Z \quad (11)$$

where

$$\Delta_1 Z = \frac{-628145.39}{3} \left( \frac{\rho}{\rho_0} \right)^{1/2} T^{-3/2} \left( \sum_{i=1}^{n+2} Z_i^2 C_i \right)^{3/2} \quad (12)$$

and

$$\Delta_2 Z = \frac{1}{V_0} \left( \frac{\rho}{\rho_0} \right) \sum_{\alpha=1}^{n+2} \sum_{\beta=1}^{n+2} C_\alpha C_\beta B_{\alpha\beta} \quad (13)$$

In the right-hand side of Eq. (12),  $Z_i$  is the ionic charge of the  $i$ th species in protonic units. In Eq. (13),  $V_0 = 22414.6 \text{ cm}^3/\text{mole}$ ,  $C_\alpha$  and  $C_\beta$  are the number of moles of the species  $\alpha$  and  $\beta$  and  $B_{\alpha\beta}$  is the second virial coefficient (in units of  $\text{cm}^3/\text{mole}$ ) for their interaction. The program is written to handle pair interactions between all of the species in the mixture. Since practical considerations often limit the availability of virial coefficients for certain interactions, the program permits the inclusion or exclusion of any reaction via an incidence matrix. Further discussion of the virial corrections is given in section 5.0.

The internal energy,

$$E/RT = \sum_{i=1}^{n+2} C_i (E^\circ/RT)_i + \bar{D}/T + \Delta_1 (E/RT) + \Delta_2 (E/RT) \quad (14)$$



where

$(E^0/RT)_i$  = the dimensionless internal energy,  $(E^0 - E_o^0)/RT$ ,  
of the  $i^{\text{th}}$  species

$\bar{D}$  = the reaction energy discussed in section 4.0

$$\Delta_1 (E/RT) = 3 \Delta_1 Z \quad (15)$$

and

$$\Delta_2 (E/RT) = - \frac{1}{V_o} \left( \frac{\rho}{\rho_o} \right) \sum_{\alpha=1}^{n+2} \sum_{\beta=1}^{n+2} C_{\alpha} C_{\beta} T \frac{d B_{\alpha\beta}}{dT} \quad (16)$$

The pressure in atmospheres,

$$P = \frac{Z R T}{V} = \left( \frac{\rho}{\rho_o} \right) \left( \frac{T}{T_o} \right) \frac{Z}{Z_o} \quad (17)$$

The enthalpy,

$$H/RT = E/RT + Z \quad (18)$$

The entropy,

$$\begin{aligned} \frac{S}{R} = Z^* & \left[ \sum_{i=1}^{n+2} X_i \left( \frac{S^o}{R} \right)_i - \sum_{i=1}^{n+2} X_i \ln X_i - \ln \left( \frac{P}{P_o} \right) \right] \\ & + \Delta_1 \left( \frac{S}{R} \right) + \Delta_2 \left( \frac{S}{R} \right) \end{aligned} \quad (19)$$

where

$$\Delta_1 (S/R) = \Delta_1 Z \quad (20)$$

and

$$\Lambda_2 \frac{S}{R} = - \frac{1}{V_0} \left( \frac{\rho}{\rho_0} \right)^{\sum_{\alpha=1}^{n+2} \sum_{\beta=1}^{n+2} C_{\alpha} C_{\beta}} \left( B_{\alpha\beta} + T \frac{d B_{\alpha\beta}}{d T} \right) \quad (21)$$

#### SECTION IV DISCUSSION OF THE INPUT DATA

The tables and figures presented in this report result from the solution of the equations given in the previous sections. The calculations, which were performed on an IBM 7090 computer, considered the equilibrium between  $N_2$ ,  $N_2^+$ ,  $N^+$ ,  $N^{++}$ ,  $N$ , and the electrons. The 6 species considered in the calculations are shown in Table B. The thermodynamic functions for the atoms, molecules and ions are the same as those used in the air calculations (Ref. 1). For atoms and atomic ions they approximate closely functions obtained by direct summation of the observed atomic energy levels (Ref. 4) up to and including levels for  $n = 5$ . The thermal functions for  $N_2$  were taken from NBS Circular 564 (Ref. 5) up to 5000°K.

The thermodynamic functions for the diatomic molecule  $N_2$ , above 5000°K and the molecule ion  $N_2^+$ , over the entire range are from unpublished calculations by L. Haar who has reinvestigated the treatment for the diatomic molecules at high temperature and has carried out new calculations at close temperature spacings. These functions represent improvements over the earlier values published for these substances by Beckett and Haar (Ref. 6).

The reaction energies - dissociation energy, heat of formation, ionization potential - for the species are given in temperature units in the last column of Table B. These are in substantial agreement with values used by Gilmore (Ref. 7) and Hochstim (Ref. 8). The equilibrium constants, computed from these values and the ideal gas free energies, are given together with the internal energy and entropy for selected temperatures in Table E. Here the internal energies for the molecules, the molecule ions, and the atomic ions have been referred to a common reference - that of the energy ( $E_0^0 = 0$ ) of the atoms at absolute zero. It should be noted that this choice would give a negative internal energy for the mixture at low temperatures - before appreciable dissociation has set in. For this reason the term  $\bar{D}/T$  has been added to Eq. (14) to restore the reference energy of the mixture to that for the molecules.

## SECTION V

### THE SECOND VIRIAL CORRECTIONS

The second virials and their derivatives used for neutral-neutral and ion-neutral pairs are based on empirical pair potentials where available, and otherwise on a combination of theoretical relations and empirical correlations described elsewhere (Ref. 9). For the attractive dispersion-type potentials, the theoretical formulas of Slater and Kirkwood (Ref. 13) or Hornig and Hirschfelder (Ref. 14) were used, but with empirical adjustments where possible. The empirically known geometric mean combination rule has also been used instead of pure theory when application was feasible. A form of Margenau's theoretical induced quadrupole energy (Ref. 15) and the theoretical induction energy were also accepted for ion-neutral pairs.

A semi-empirical correlation of inter-atomic repulsive potentials was based on interatomic Lennard-Jones parameters converted directly from corresponding parameters for molecules. For this conversion, the atomic pair excluded volume was based on an extension (Ref. 9) of Kihara's spherocylindrical treatment for diatomic molecules so as to cover also sphero-conical diatomic molecules which are then models for pairs involving diatomic compounds. By this means, atomic exclusion radii were obtained from molecular excluded volumes and internuclear distances within the diatomic molecules. The assumption of additivity of long-range dispersion forces between atoms of separate molecules then led to a selection of non-bonding atom-atom energy parameters with the help in some cases of extensions of familiar combination rules commonly used for mixtures. A good correlation of the resulting coefficients of the inverse twelfth repulsion energy term was obtained by converting to a basis conforming to the exponent for Slater wave functions, with the internal shielding essentially as given by Slater's rules.

The numerical values for the second virial coefficients, and derivatives, for the various pairs of interest have been taken from the same source (Ref. 9). They were based on a specialization from a general polyreciprocal potential to the particular case of a general 12, 6, 4 potential approximately covering ion-neutral and neutral-neutral pair effects. The interactions considered in these calculations are shown in the incidence matrix in Table F. The virial coefficients for certain selected temperatures are given in Table G. In computing the corrections to the properties (Eqs. (13), (16), (21)), the program was arranged to consider the contribution of the included pairs when the product  $C_\alpha \times C_\beta$  exceeded  $10^{-40}$ .

## SECTION VI

### DISCUSSION OF THE TABLES

Table 1 gives the following thermodynamic properties: the compressibility factor,  $Z = PV/RT$ ; the dimensionless internal energy,  $E/RT$ ; enthalpy,  $H/RT$ ; the entropy,  $S/R$ ;  $\log_{10} P$  (atm); and the number of moles  $Z^* = \sum C_i$ . The tables are presented at 100-deg intervals from 1600 to 15,000°K. They were computed at uniform intervals (0.2) in  $\log_{10} \rho/\rho_0$  from  $\rho/\rho_0 = 10^{-7}$  to somewhat over 100 times normal density. The densities corresponding to the logarithmic arguments are given in Table D. The compressibility isotherms are shown graphically in Figs. 1a and b.

Unlike the ideal calculations, the tabulated values of  $Z$  are the compressibility factors and not the number of moles. These two values are coincident only when gas imperfections are small. The influence of the gas imperfections on the compressibility are shown graphically for selected temperatures in Figs. 2a, et seq., for the second virials and in Fig. 3 for the limiting-law Debye-Huckel effect. It will be observed from Eqs. (15), (18), and (20) that for the limiting-law Debye-Huckel effect the corrections to the internal energy, enthalpy, and entropy are simple multiples of  $\Delta_1 Z$ . Thus, Fig. 3 can be used to assess this influence on four of the thermodynamic properties tabulated.

The thermodynamic properties presented here result from the solution of equations involving the equilibrium between 6 species shown in Table B. The equilibrium compositions for selected temperatures are shown in Figs. 4a, et seq.

The magnitude of the real-gas effects considered here can best be ascertained from Figs. 2a, et seq., and 3. The second virial corrections  $\Gamma_1(2)$ , to the equilibrium constants (and hence to the concentrations of the species present) are greater than unity for all non-reference species. This effect increases the equilibrium constants, thereby favoring the formation of the molecules and ions over that of the neutral atoms. These effects appear most dramatically in the elevated temperatures region only at high densities where the ions persist. The overall effect of the changes in the concentrations on the properties of the mixture is small. The major effect of the gas imperfections as shown in Figs. 2a through d is from the deltas computed in Eq. (13). The same may be said for the corrections to the internal energy, entropy, etc., given in Eqs. (16) and (21).

As early as 1959 Gilmore carried out a number of spot calculations of the effect of the gas imperfections on the

compressibility, internal energy, enthalpy, entropy, and pressure of air (Ref. 7). He computed second and third virial coefficients for "air" as a single substance on the assumption that a Lennard-Jones 6-12 interaction potential with the constants  $\epsilon/k = 102^\circ\text{K}$  and  $\sigma = 3.62\text{\AA}$ . His results served to confirm the general trend of the virial corrections as was illustrated in the report for Air (Ref. 1). A similar calculation was carried out for Nitrogen by Smith (Ref. 10) using virial coefficients credited to Amdur and Mason (Ref. 11). Smith's results, comprising a gross correction to the properties of equilibrium mixture, is shown for the 2000° isotherm in Figure 2a, where agreement with our detailed calculation is apparent at densities up to 100 normal. The departure at higher densities is in general agreement but not as extreme as those resulting from similarly gross corrections made by us, using the Lennard-Jones potential with force constants taken from Reference 12. These corrections are shown in Figures 2a et seq. to indicate the possible magnitude of the third virial corrections but not their numerical values.

While the tables presented here represent a closer approximation to the properties of nitrogen than has been computed heretofore, they are by no means the last word. The improvement of the tables depends upon further theoretical formulations for the inclusion of higher ionic and higher virial corrections, as well as a significant increase in knowledge to be gained from a variety of experiments. Much more information is needed on excited states of molecules and molecule ions; on interaction potentials between the neutral and between the charged species present in high temperature gases; and on such data as heats of formation, dissociation energies, ionization potentials, etc.

For a number of reasons it is obvious that the tables are given to one or, in some instances, two places more than is warranted by the uncertainties in the input data. This is done to ensure smoothness for further mathematical manipulations. Although the computer program and the results have been checked in a number of ways, it would be unrealistic to assume that the tables are entirely error free. The authors hope that such errors as remain are small and would appreciate having any remaining errors called to their attention.

The tables presented here provide only one third of the complete ensemble of properties required in modern technology. In addition to these tables it is important to have consistent derived properties including: the specific heats, the specific heat ratio, isentropic expansion coefficient, and sound velocity. Equally important for many applications are tables of equilibrium properties across normal shocks. In the past,

other authors have computed numbers of tables and charts of these properties from earlier tables by employing numerical or graphical techniques. These tables and charts now require revision of greater or lesser degree on two counts - the influence of the real-gas corrections at the higher densities, and inaccuracies arising from the numerical differentiation of the energy.

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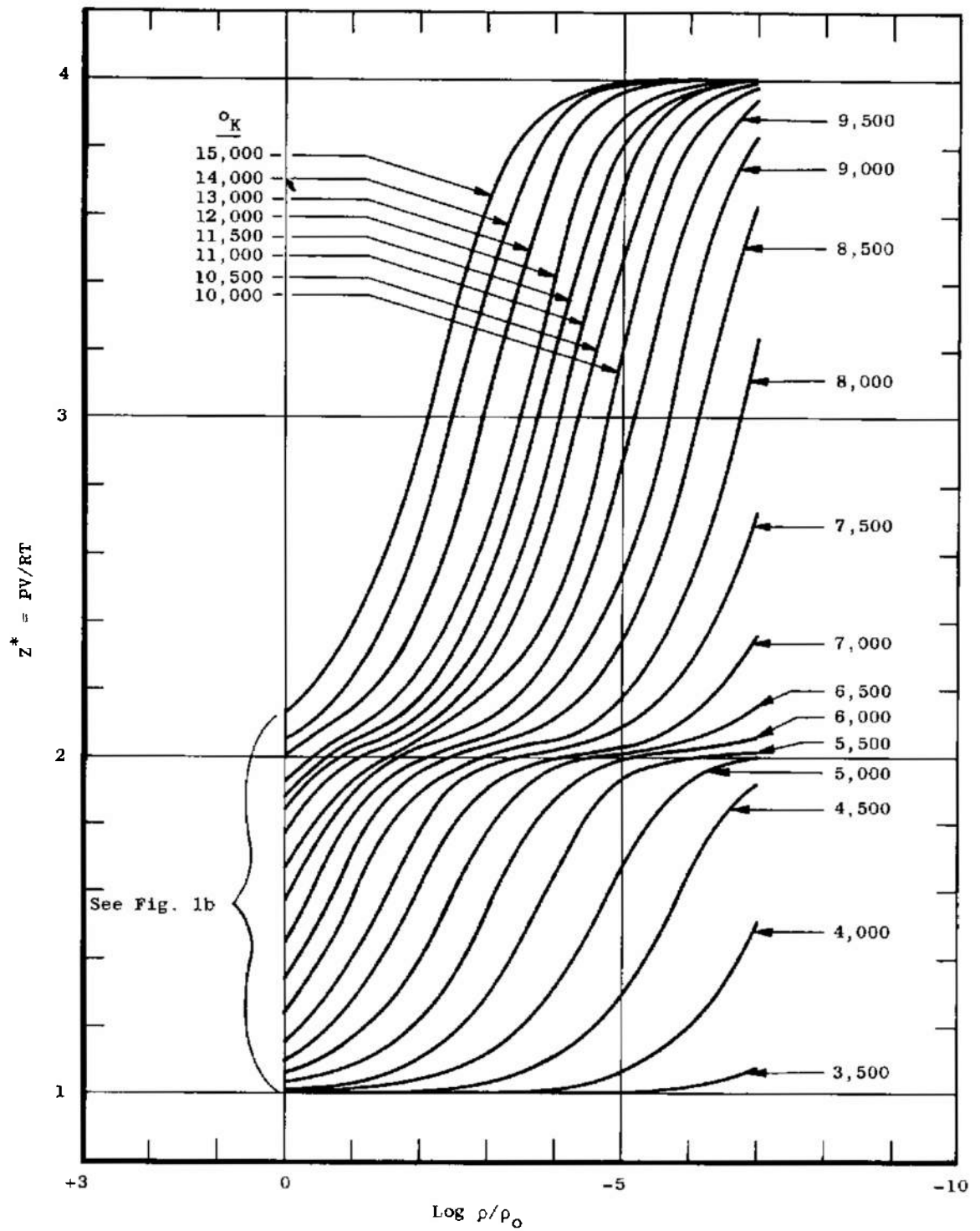


Fig. 1 Compressibility Isotherms for Nitrogen



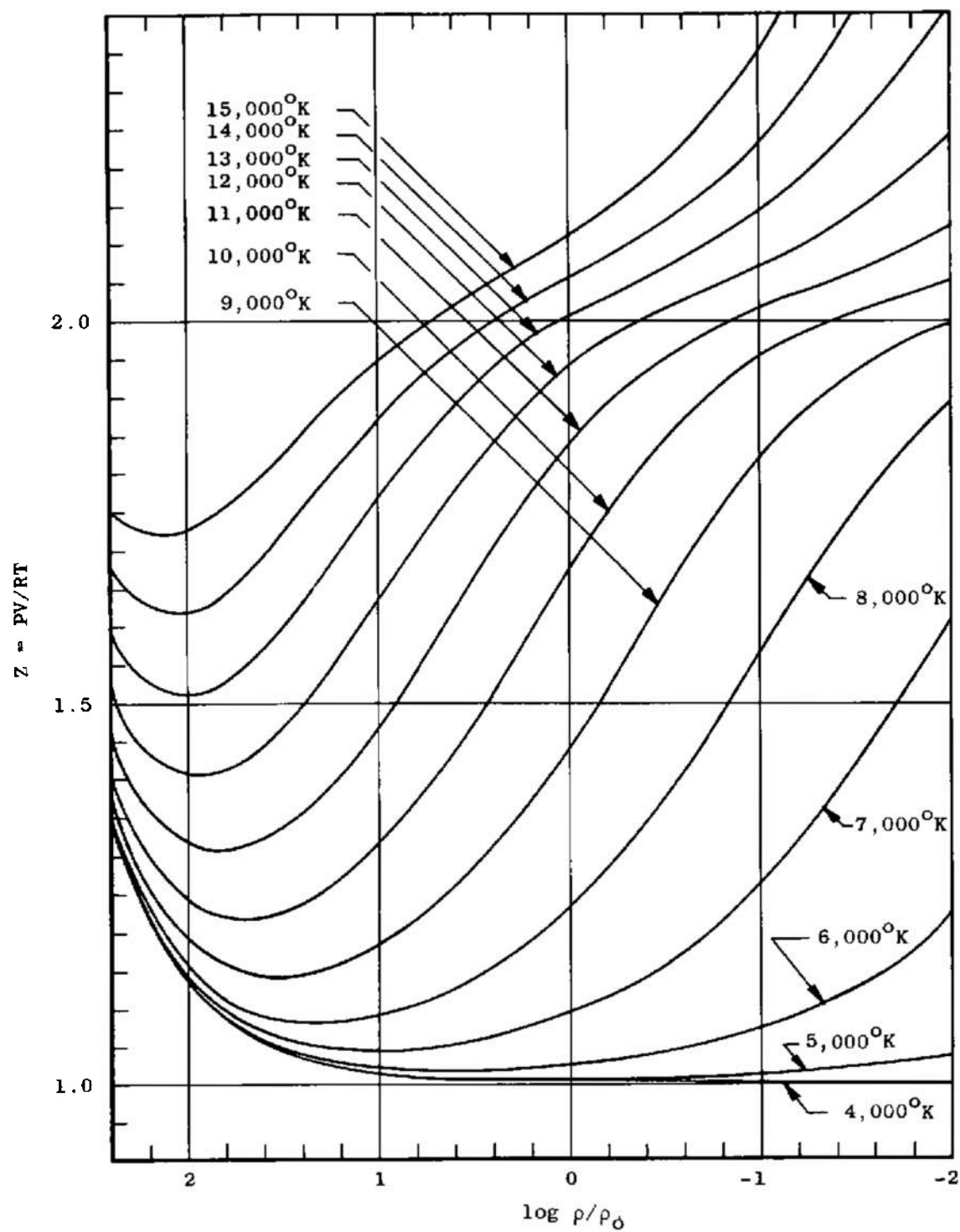


Fig. 1 Concluded

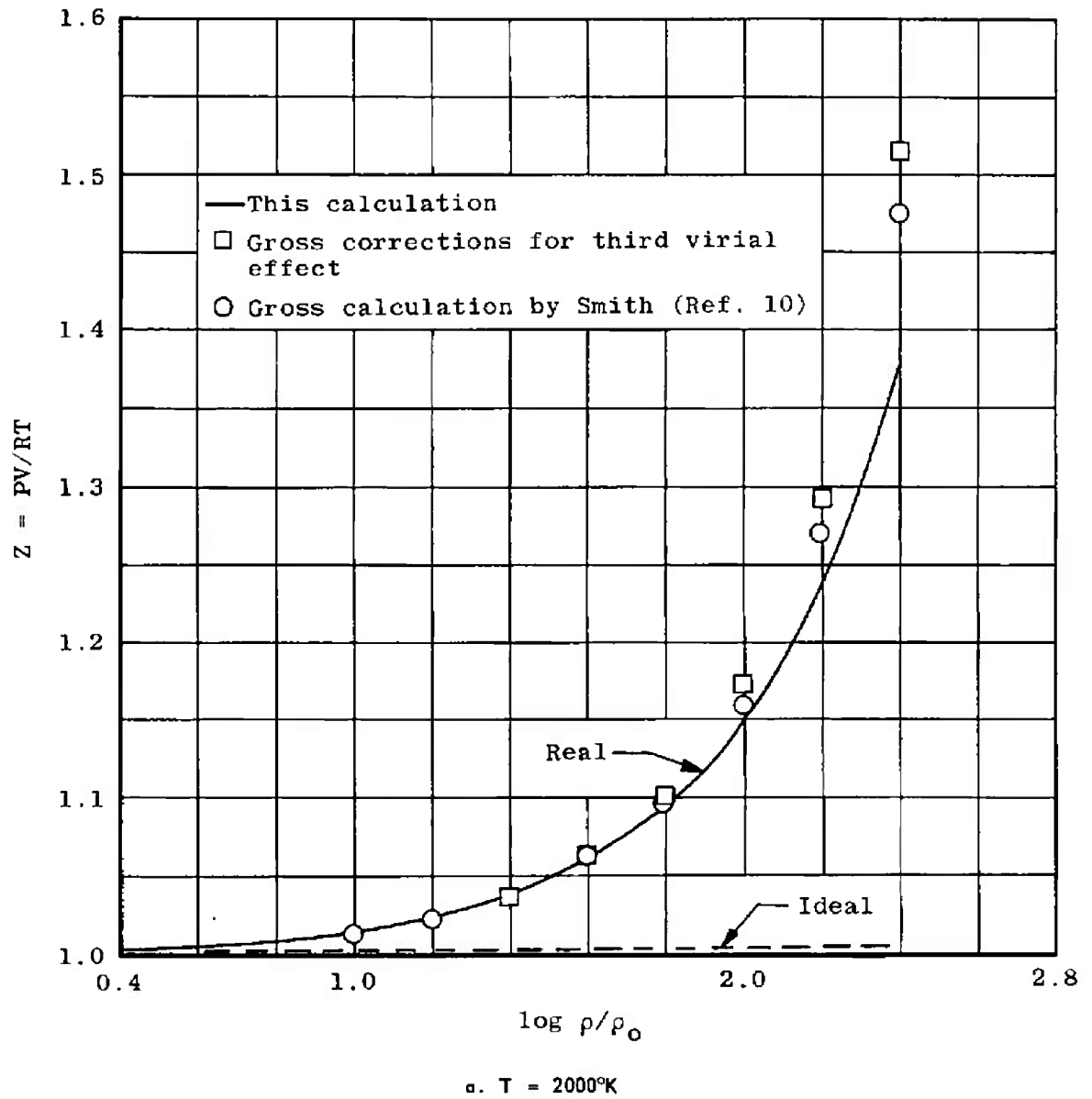


Fig. 2 Corrected and Ideal Compressibility Isotherms for Air

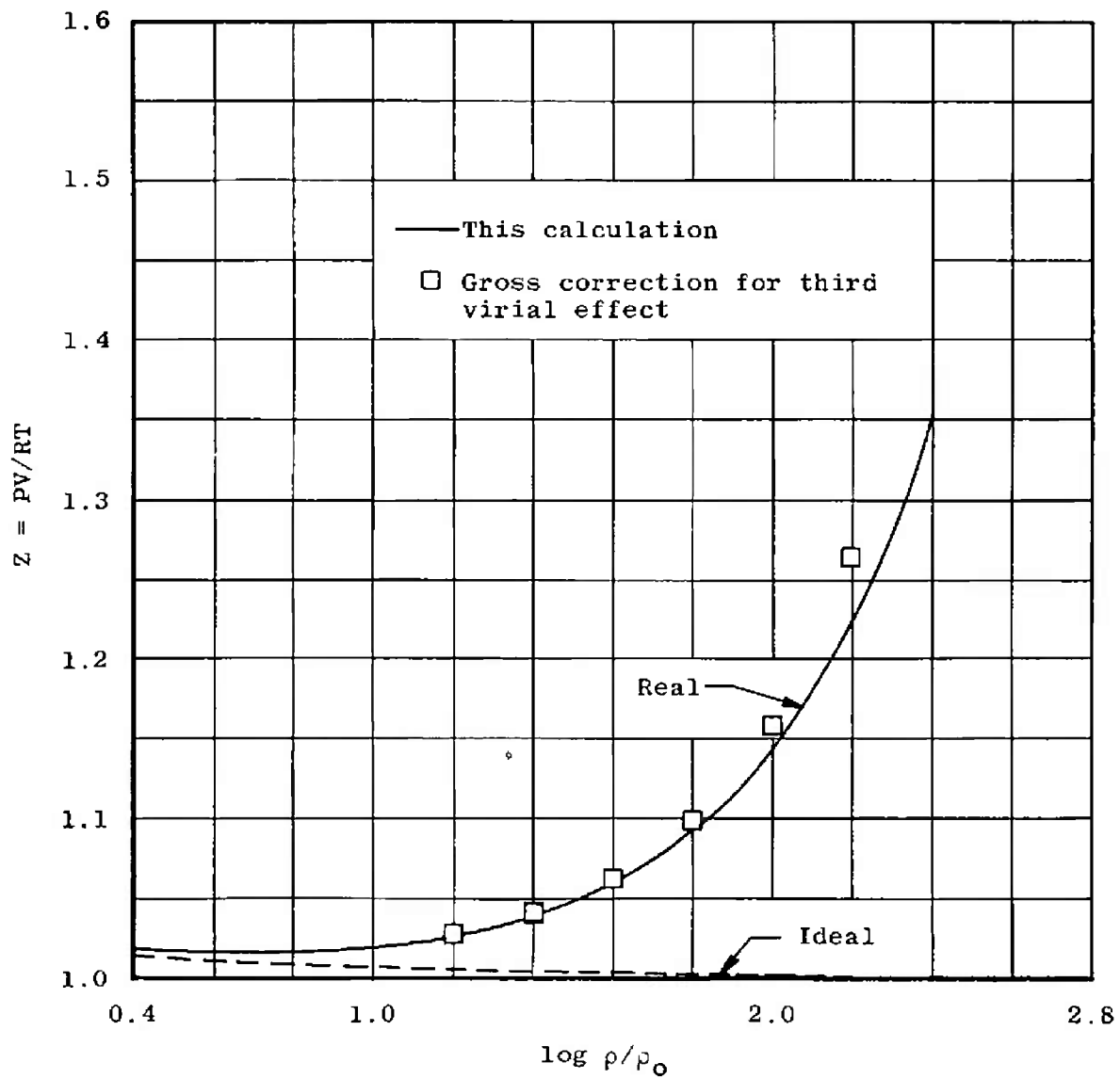
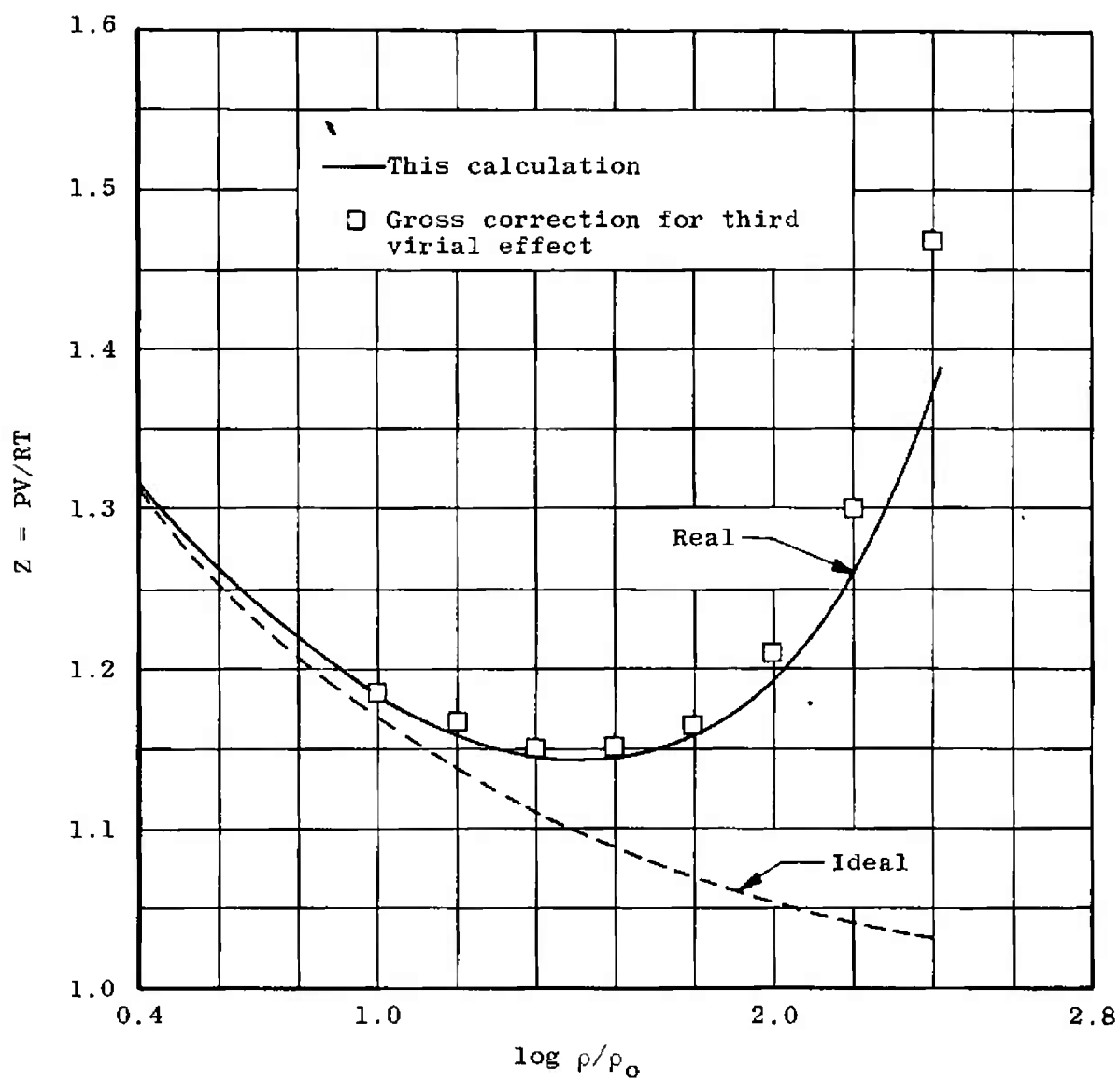
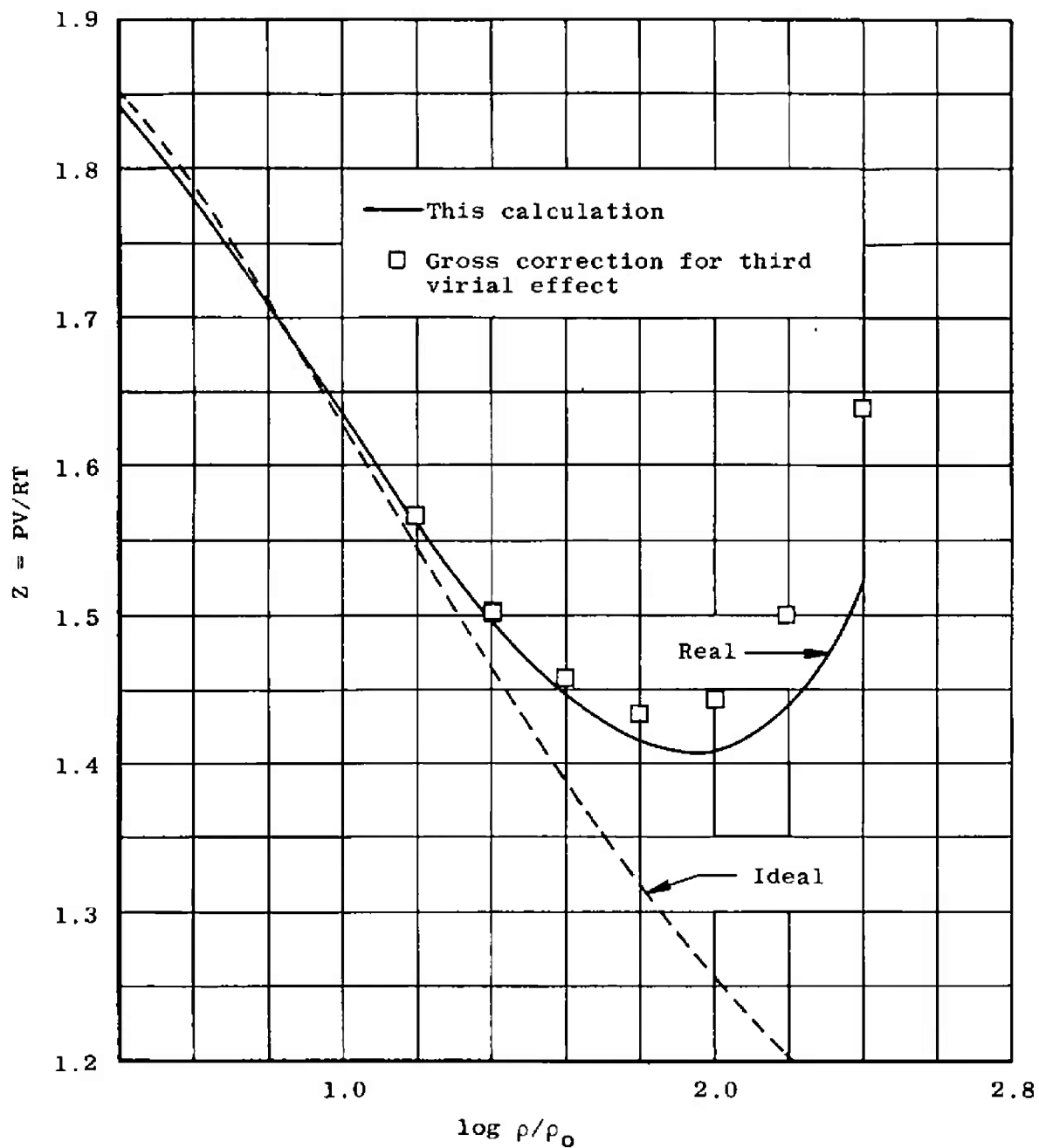
b.  $T = 6000^\circ\text{K}$ 

Fig. 2 Continued



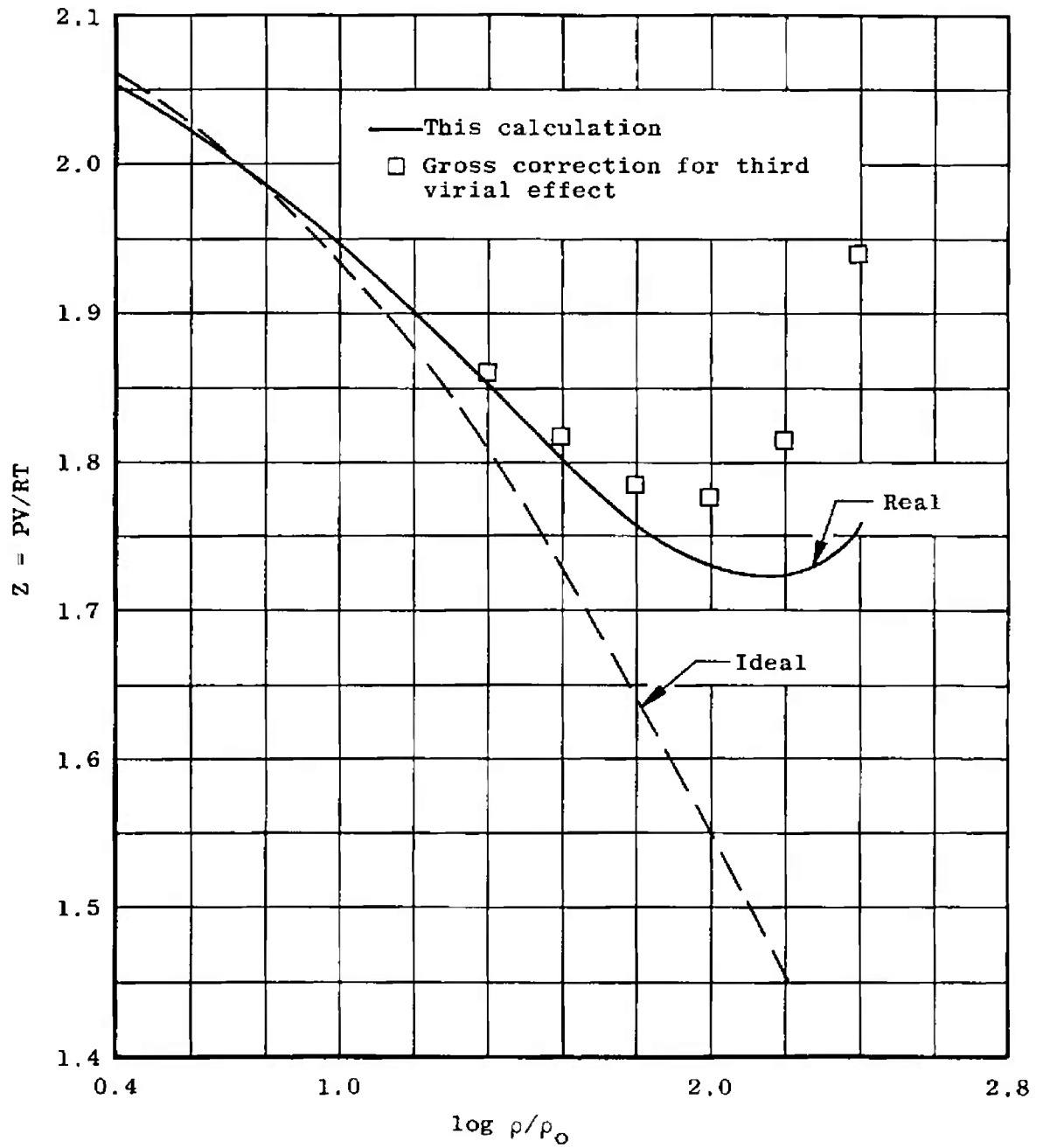
c.  $T = 9000^\circ\text{K}$

Fig. 2 Continued



d.  $T = 12,000^\circ\text{K}$

Fig. 2 Continued



e.  $T = 15,000^\circ\text{K}$

Fig. 2 Concluded

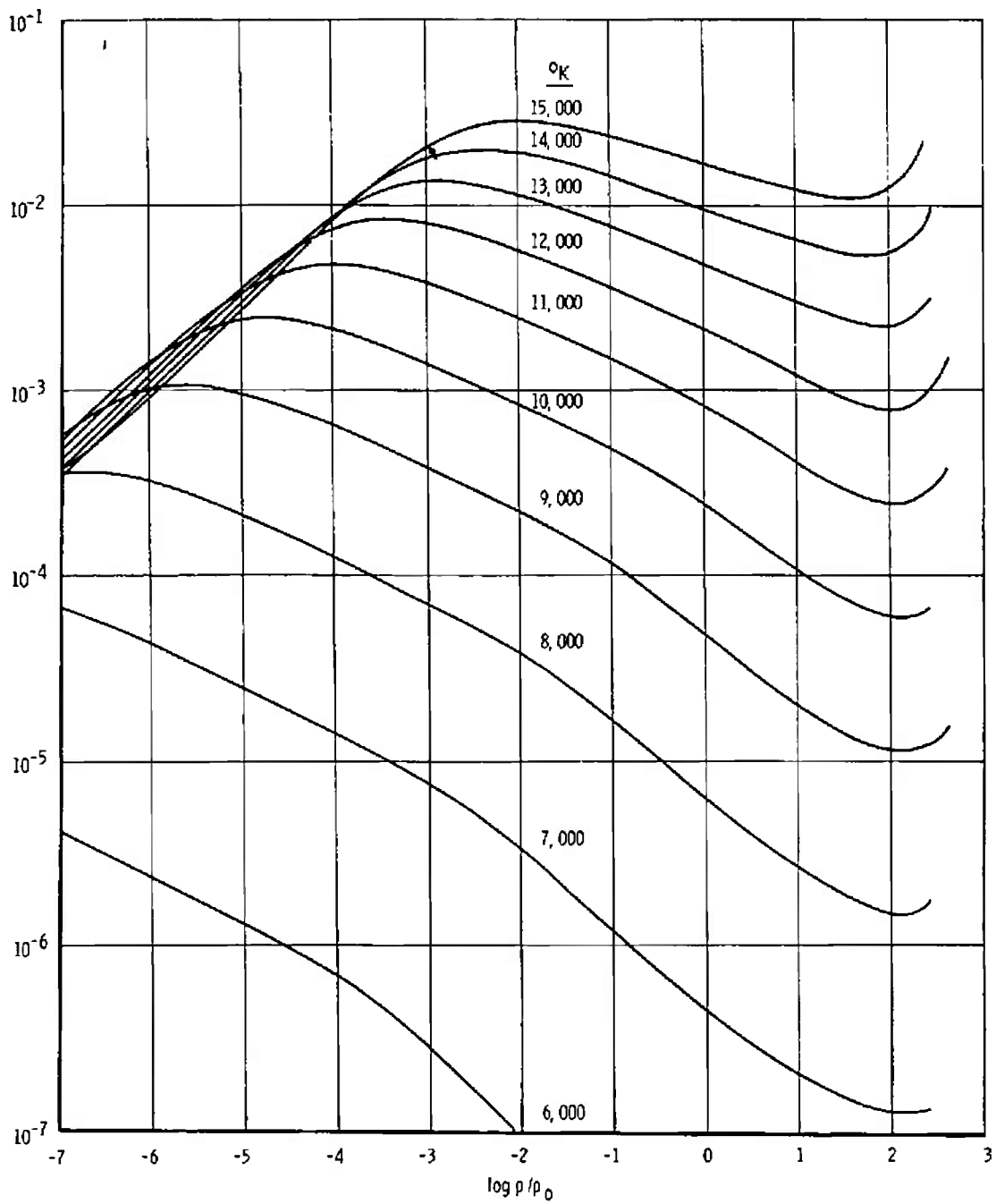


Fig. 3 Limiting-Law Debye-Hückel Effect on the Compressibility for Nitrogen

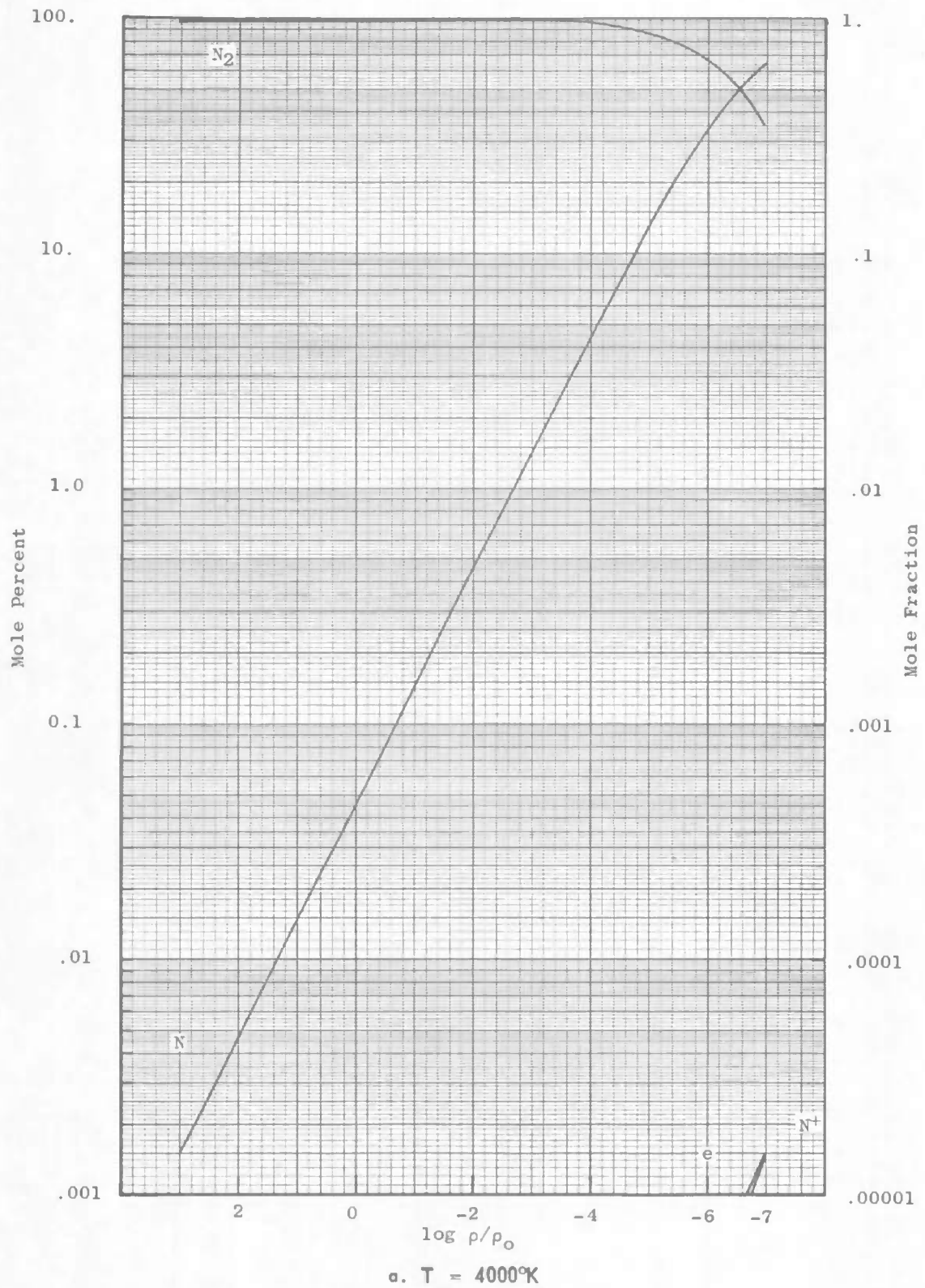


Fig. 4 Equilibrium Composition of Nitrogen



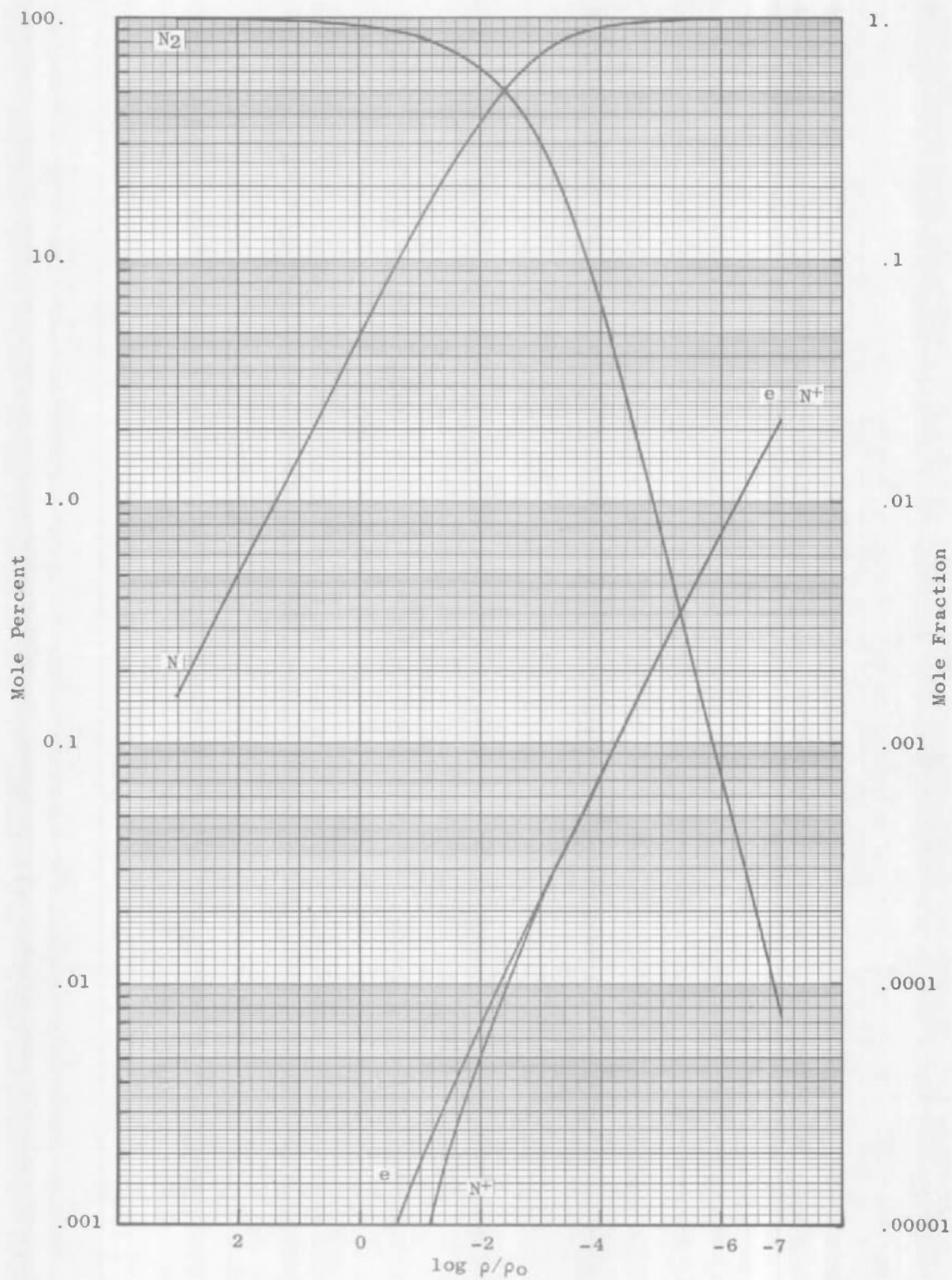
b.  $T = 6000^{\circ}\text{K}$ 

Fig. 4 Continued

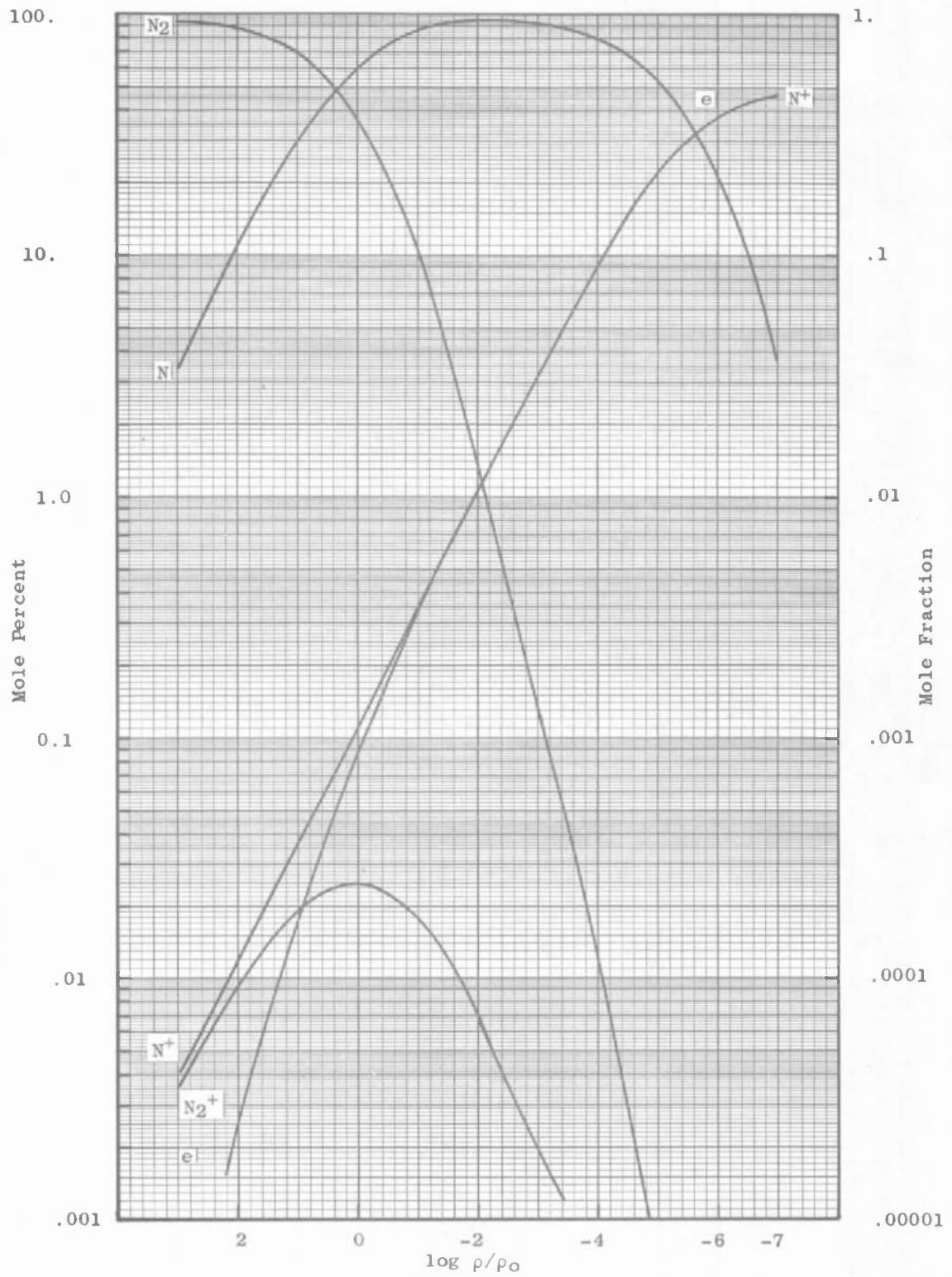
c.  $T = 9000^\circ\text{K}$ 

Fig. 4 Continued

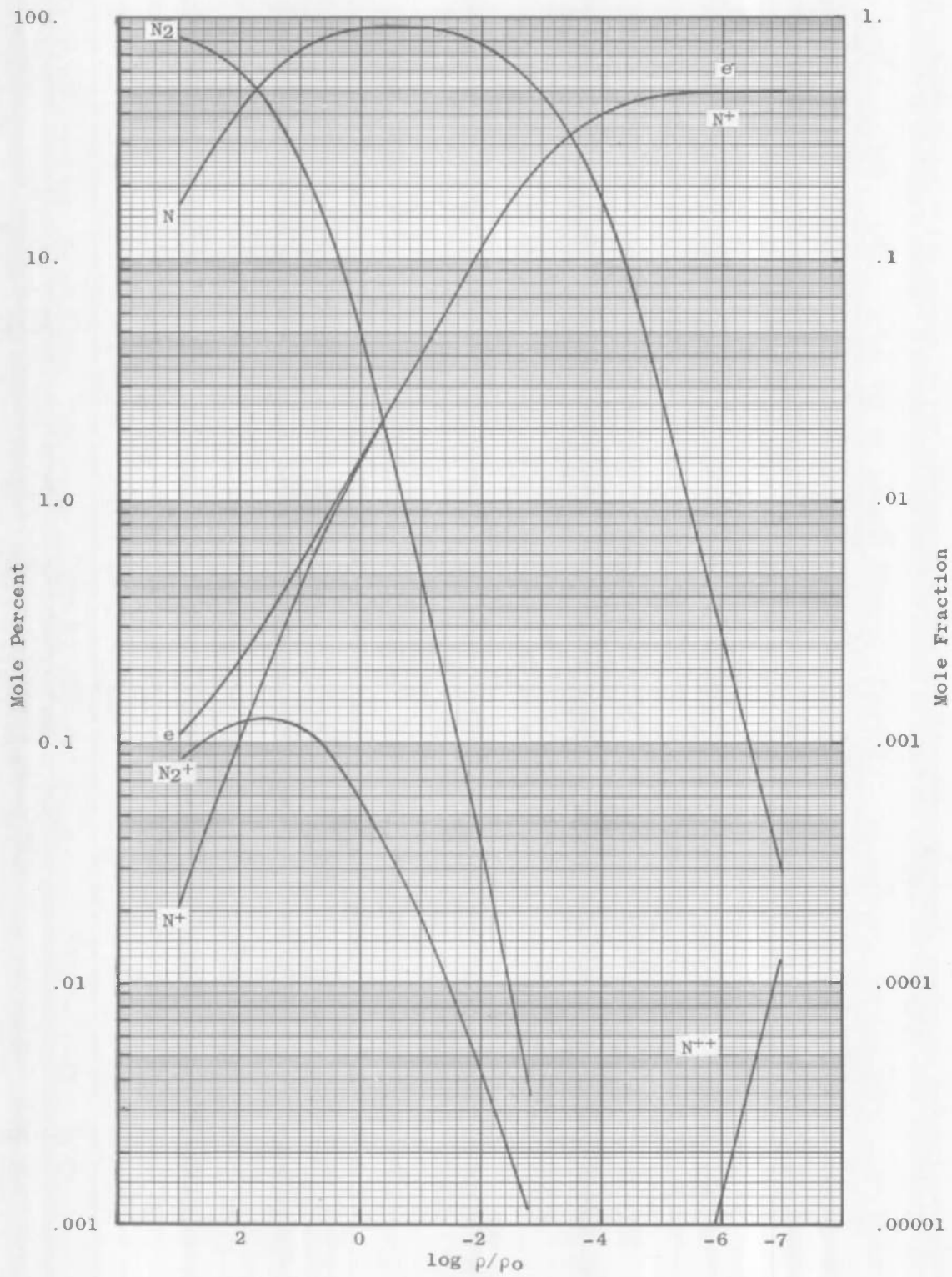
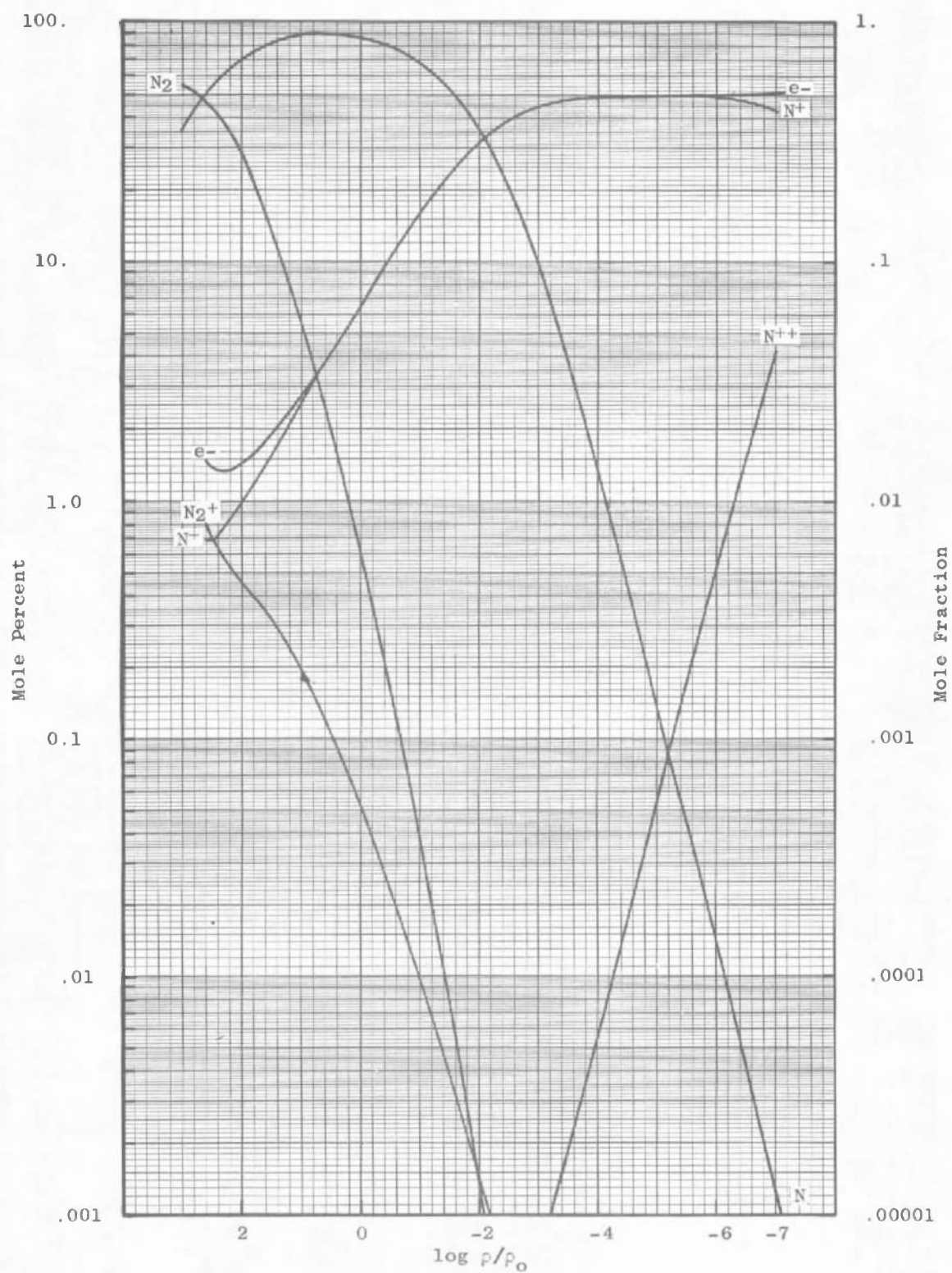
d.  $T = 12,000^\circ\text{K}$ 

Fig. 4 Continued



e.  $T = 15,000^\circ\text{K}$

Fig. 4 Concluded

**TABLE A**  
**CHEMICAL REACTIONS AND EQUILIBRIUM EQUATIONS FOR NITROGEN**

i	Symbol	Reaction	Equilibrium Constants	Concentration Equations	$\omega_i$
1	$N_2$	$N + N \rightleftharpoons N_2$	$K_1 = [N_2]/[N]^2$	$[N_2]^* = K_1 [N]^2$	-1
2	$N_2^+$	$2N \rightleftharpoons N_2^+ + e$	$K_2 = [N_2^+][e]/[N]^2$	$[N_2^+] = K_2 [N]^2/[e]$	0
3	$N^+$	$N \rightleftharpoons N^+ + e$	$K_3 = [N^+][e]/[N]$	$[N^+] = K_3 [N]/[e]$	1
4	$N^{++}$	$N \rightleftharpoons N^{++} + 2e$	$K_4 = [N^{++}][e]^2/[N]$	$[N^{++}] = K_4 [N]/[e]^2$	2

\*  $[N_2]$  denotes the concentration of molecular nitrogen

**TABLE B**  
**INCIDENCE MATRIX OF  $r_{ik}$  VALUES FOR NITROGEN**

i	Species	$r_{i1}$	$r_{i2}$	$D_i/R$ (°K)
1	$N_2$	2	0	-113258.
2	$N_2^+$	2	-1	67561.7
3	$N^+$	1	-1	168647.5
4	$N^{++}$	1	-2	512162.6
5	N	1	0	
6	e	0	-1	

**TABLE C**  
**MASS AND CHARGE BALANCE EQUATIONS FOR NITROGEN**

k	Specie	Equations
1	Nitrogen	$X_1 = 2.0 = \sum_{i=1}^{n+1} r_{i1} C_i$
2	Electrons	$C_2 = - \sum_{i=1}^{n+1} r_{i2} C_i$

**TABLE D**  
**DENSITIES CORRESPONDING TO THE TABULATED ARGUMENTS**

$\log \rho/\rho_0$	$\rho/\rho_0$	$\frac{\rho}{\text{g/cm}^3}$
2.0	100.	$1.29313 \cdot 10^{-1}$
1.8	63.0957	$8.15909 \cdot 10^{-2}$
1.6	39.8107	$5.14804 \cdot 10^{-2}$
1.4	25.1189	$3.24820 \cdot 10^{-2}$
1.2	15.8489	$2.04947 \cdot 10^{-2}$
1.0	10.	$1.29313 \cdot 10^{-2}$
0.8	6.30957	$8.15909 \cdot 10^{-3}$
0.6	3.98107	$5.14804 \cdot 10^{-3}$
0.4	2.51189	$3.24820 \cdot 10^{-3}$
0.2	1.58489	$2.04947 \cdot 10^{-3}$
0.	1.0	$1.29313 \cdot 10^{-3}$
-0.2	0.630957	$8.15909 \cdot 10^{-4}$
-0.4	0.398107	$5.14804 \cdot 10^{-4}$
-0.6	0.251189	$3.24820 \cdot 10^{-4}$
-0.8	0.158489	$2.04947 \cdot 10^{-4}$
-1.0	0.1	$1.29313 \cdot 10^{-4}$
	etc.	etc.

TABLE E

## INPUT DATA FOR NITROGEN CALCULATIONS AT 6000, 9000, AND 12,000°K

Temperature = 6000

SPECIES	$\bar{K}$	E/RT*	ENTROPY
N2	3.94132E-02	-15.56283	35.23600
N2+	7.71096E-09	15.10438	36.82100
N+	1.12874E-10	29.68155	26.80756
N++	8.41234E-34	86.88795	26.33521
N	1.00000E-00	1.62184	26.07791
E-	1.00000E-00	1.50000	10.01480

Temperature = 9000

SPECIES	$\bar{K}$	E/RT*	ENTROPY
N2	7.02030E-01	-9.11822	37.16600
N2+	7.34251E-07	11.55666	39.03700
N+	2.29934E-06	20.37098	27.92113
N++	5.92088E-21	58.42733	27.35113
N	1.00000E-00	1.87547	27.44195
E-	1.00000E-00	1.50000	11.02840

Temperature = 12000

SPECIES	$\bar{K}$	E/RT*	ENTROPY
N2	2.70472E-02	-5.72667	38.72600
N2+	7.69129E-06	9.77254	40.59600
N+	3.49440E-04	15.73247	28.73122
N++	1.85813E-14	44.20862	28.08487
N	1.00000E-00	2.07210	28.49509
E-	1.00000E-00	1.50000	11.74770

\*The internal energy has been reduced to refer it to the reference energy for atoms.



**TABLE F**  
**INCIDENCE MATRIX FOR VIRIAL COEFFICIENTS**

E	0	0	0	0	0	0
N	1	1	1	0	1	0
N <sup>++</sup>	0	0	0	0	0	0
N <sup>+</sup>	1	0	0	0	1	0
N <sub>2</sub> <sup>+</sup>	0	0	0	0	1	0
N <sub>2</sub>	1	0	1	0	1	0
	N <sub>2</sub>	N <sub>2</sub> <sup>+</sup>	N <sup>+</sup>	N <sup>++</sup>	N	E

**TABLE G**  
**SECOND VIRIAL COEFFICIENTS AT 6000, 9000, AND 12,000°K**

Interaction	6000°K	9000°K	12,000°K
N - N	18.620	17.390	16.473
N - N <sup>+</sup>	-11.012	-3.133	0.555
N - N <sub>2</sub> <sup>+</sup>	-0.991	5.297	8.125
N - N <sub>2</sub>	24.280	22.790	21.675
N <sub>2</sub> - N <sub>2</sub>	31.211	29.503	28.168
N <sub>2</sub> - N <sup>+</sup>	-16.324	-5.283	-0.106

TABLE H  
THERMODYNAMIC PROPERTIES AND CHEMICAL COMPOSITION

T= 1600

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000+00	4.4800-21	.0000+00	.0000+00	8.6800-10	4.4800-21
-6.8	1.0000+00	3.5600-21	.0000+00	.0000+00	6.9000-10	3.5600-21
-6.6	1.0000+00	2.8300-21	.0000+00	.0000+00	5.4800-10	2.8300-21
-6.4	1.0000+00	2.2500-21	.0000+00	.0000+00	4.3500-10	2.2500-21
-6.2	1.0000+00	1.7900-21	.0000+00	.0000+00	3.4600-10	1.7900-21
-6.0	1.0000+00	1.4200-21	.0000+00	.0000+00	2.7500-10	1.4200-21
-5.8	1.0000+00	1.1300-21	.0000+00	.0000+00	2.1800-10	1.1300-21
-5.6	1.0000+00	8.9500-22	.0000+00	.0000+00	1.7300-10	8.9500-22
-5.4	1.0000+00	7.1100-22	.0000+00	.0000+00	1.3800-10	7.1100-22
-5.2	1.0000+00	5.6400-22	.0000+00	.0000+00	1.0900-10	5.6500-22
-5.0	1.0000+00	4.4800-22	.0000+00	.0000+00	8.6800-11	4.4800-22
-4.8	1.0000+00	3.5600-22	.0000+00	.0000+00	6.9000-11	3.5600-22
-4.6	1.0000+00	2.8300-22	.0000+00	.0000+00	5.4800-11	2.8300-22
-4.4	1.0000+00	2.2500-22	.0000+00	.0000+00	4.3500-11	2.2500-22
-4.2	1.0000+00	1.7900-22	.0000+00	.0000+00	3.4600-11	1.7900-22
-4.0	1.0000+00	1.4200-22	.0000+00	.0000+00	2.7500-11	1.4200-22
-3.8	1.0000+00	1.1300-22	.0000+00	.0000+00	2.1800-11	1.1300-22
-3.6	1.0000+00	8.9500-23	.0000+00	.0000+00	1.7300-11	8.9500-23
-3.4	1.0000+00	7.1100-23	.0000+00	.0000+00	1.3800-11	7.1100-23
-3.2	1.0000+00	5.6500-23	.0000+00	.0000+00	1.0900-11	5.6500-23
-3.0	1.0000+00	4.4800-23	.0000+00	.0000+00	8.6800-12	4.4800-23
-2.8	1.0000+00	3.5600-23	.0000+00	.0000+00	6.9000-12	3.5600-23
-2.6	1.0000+00	2.8300-23	.0000+00	.0000+00	5.4800-12	2.8300-23
-2.4	1.0000+00	2.2500-23	.0000+00	.0000+00	4.3500-12	2.2500-23
-2.2	1.0000+00	1.7900-23	.0000+00	.0000+00	3.4600-12	1.7900-23
-2.0	1.0000+00	1.4200-23	.0000+00	.0000+00	2.7500-12	1.4200-23
-1.8	1.0000+00	1.1300-23	.0000+00	.0000+00	2.1800-12	1.1300-23
-1.6	1.0000+00	8.9500-24	.0000+00	.0000+00	1.7300-12	8.9500-24
-1.4	1.0000+00	7.1100-24	.0000+00	.0000+00	1.3800-12	7.1100-24
-1.2	1.0000+00	5.6500-24	.0000+00	.0000+00	1.0900-12	5.6500-24
-1.0	1.0000+00	4.4800-24	.0000+00	.0000+00	8.6800-13	4.4800-24
-.8	1.0000+00	3.5600-24	.0000+00	.0000+00	6.8900-13	3.5600-24
-.6	1.0000+00	2.8300-24	.0000+00	.0000+00	5.4800-13	2.8300-24
-.4	1.0000+00	2.2500-24	.0000+00	.0000+00	4.3500-13	2.2500-24
-.2	1.0000+00	1.7900-24	.0000+00	.0000+00	3.4500-13	1.7900-24
.0	1.0000+00	1.4200-24	.0000+00	.0000+00	2.7400-13	1.4200-24
.2	1.0000+00	1.1300-24	.0000+00	.0000+00	2.1800-13	1.1300-24
.4	1.0000+00	8.9800-25	.0000+00	.0000+00	1.7300-13	8.9800-25
.6	1.0000+00	7.1500-25	.0000+00	.0000+00	1.3700-13	7.1500-25
.8	1.0000+00	5.7000-25	.0000+00	.0000+00	1.0900-13	5.7000-25
1.0	1.0000+00	4.5500-25	.0000+00	.0000+00	8.6000-14	4.5500-25
1.2	1.0000+00	3.6400-25	.0000+00	.0000+00	6.7900-14	3.6400-25
1.4	1.0000+00	2.9300-25	.0000+00	.0000+00	5.3500-14	2.9300-25
1.6	1.0000+00	2.3800-25	.0000+00	.0000+00	4.1900-14	2.3800-25
1.8	1.0000+00	1.9600-25	.0000+00	.0000+00	3.2600-14	1.9600-25
2.0	1.0000+00	1.6400-25	.0000+00	.0000+00	2.5000-14	1.6400-25
2.2	1.0000+00	1.4200-25	.0000+00	.0000+00	1.8800-14	1.4200-25

T= 1600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0000+00	2.8017+00	3.8017+00	4.3697+01	-6.2323+00	1.0000+00
-6.8	1.0000+00	2.8017+00	3.8017+00	4.3237+01	-6.0323+00	1.0000+00
-6.6	1.0000+00	2.8017+00	3.8017+00	4.2776+01	-5.8323+00	1.0000+00
-6.4	1.0000+00	2.8017+00	3.8017+00	4.2316+01	-5.6323+00	1.0000+00
-6.2	1.0000+00	2.8017+00	3.8017+00	4.1855+01	-5.4323+00	1.0000+00
-6.0	1.0000+00	2.8017+00	3.8017+00	4.1394+01	-5.2323+00	1.0000+00
-5.8	1.0000+00	2.8017+00	3.8017+00	4.0934+01	-5.0323+00	1.0000+00
-5.6	1.0000+00	2.8017+00	3.8017+00	4.0473+01	-4.8323+00	1.0000+00
-5.4	1.0000+00	2.8017+00	3.8017+00	4.0013+01	-4.6323+00	1.0000+00
-5.2	1.0000+00	2.8017+00	3.8017+00	3.9552+01	-4.4323+00	1.0000+00
-5.0	1.0000+00	2.8017+00	3.8017+00	3.9092+01	-4.2323+00	1.0000+00
-4.8	1.0000+00	2.8017+00	3.8017+00	3.8631+01	-4.0323+00	1.0000+00
-4.6	1.0000+00	2.8017+00	3.8017+00	3.8171+01	-3.8323+00	1.0000+00
-4.4	1.0000+00	2.8017+00	3.8017+00	3.7710+01	-3.6323+00	1.0000+00
-4.2	1.0000+00	2.8017+00	3.8017+00	3.7250+01	-3.4323+00	1.0000+00
-4.0	1.0000+00	2.8017+00	3.8017+00	3.6789+01	-3.2323+00	1.0000+00
-3.8	1.0000+00	2.8017+00	3.8017+00	3.6329+01	-3.0323+00	1.0000+00
-3.6	1.0000+00	2.8017+00	3.8017+00	3.5868+01	-2.8323+00	1.0000+00
-3.4	1.0000+00	2.8017+00	3.8017+00	3.5408+01	-2.6323+00	1.0000+00
-3.2	1.0000+00	2.8017+00	3.8017+00	3.4947+01	-2.4323+00	1.0000+00
-3.0	1.0000+00	2.8017+00	3.8017+00	3.4487+01	-2.2323+00	1.0000+00
-2.8	1.0000+00	2.8017+00	3.8017+00	3.4026+01	-2.0323+00	1.0000+00
-2.6	1.0000+00	2.8017+00	3.8017+00	3.3566+01	-1.8323+00	1.0000+00
-2.4	1.0000+00	2.8017+00	3.8017+00	3.3105+01	-1.6323+00	1.0000+00
-2.2	1.0000+00	2.8017+00	3.8017+00	3.2645+01	-1.4323+00	1.0000+00
-2.0	1.0000+00	2.8017+00	3.8017+00	3.2184+01	-1.2323+00	1.0000+00
-1.8	1.0000+00	2.8017+00	3.8017+00	3.1724+01	-1.0323+00	1.0000+00
-1.6	1.0000+00	2.8017+00	3.8017+00	3.1263+01	-8.3226-01	1.0000+00
-1.4	1.0001+00	2.8017+00	3.8018+00	3.0803+01	-6.3226-01	1.0000+00
-1.2	1.0001+00	2.8017+00	3.8018+00	3.0342+01	-4.3224-01	1.0000+00
-1.0	1.0001+00	2.8017+00	3.8018+00	2.9881+01	-2.3222-01	1.0000+00
-.8	1.0002+00	2.8017+00	3.8019+00	2.9421+01	-3.2180-02	1.0000+00
-.6	1.0004+00	2.8017+00	3.8020+00	2.8960+01	1.6788-01	1.0000+00
-.4	1.0006+00	2.8016+00	3.8022+00	2.8499+01	3.6797-01	1.0000+00
-.2	1.0009+00	2.8016+00	3.8025+00	2.8038+01	5.6812-01	1.0000+00
.0	1.0015+00	2.8015+00	3.8030+00	2.7577+01	7.6835-01	1.0000+00
.2	1.0023+00	2.8015+00	3.8038+00	2.7116+01	9.6872-01	1.0000+00
.4	1.0037+00	2.8013+00	3.8050+00	2.6654+01	1.1693+00	1.0000+00
.6	1.0058+00	2.8011+00	3.8069+00	2.6191+01	1.3702+00	1.0000+00
.8	1.0092+00	2.8007+00	3.8099+00	2.5727+01	1.5717+00	1.0000+00
1.0	1.0146+00	2.8001+00	3.8147+00	2.5260+01	1.7740+00	1.0000+00
1.2	1.0231+00	2.7992+00	3.8223+00	2.4790+01	1.9776+00	1.0000+00
1.4	1.0366+00	2.7977+00	3.8343+00	2.4315+01	2.1833+00	1.0000+00
1.6	1.0580+00	2.7954+00	3.8534+00	2.3831+01	2.3922+00	1.0000+00
1.8	1.0919+00	2.7917+00	3.8836+00	2.3332+01	2.6059+00	1.0000+00
2.0	1.1456+00	2.7859+00	3.9315+00	2.2812+01	2.8267+00	1.0000+00
2.2	1.2307+00	2.7766+00	4.0074+00	2.2257+01	3.0579+00	1.0000+00

T= 1700

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000+00	1.3100-19	.0000+00	.0000+00	7.0000-09	1.3100-19
-6.8	1.0000+00	1.0400-19	.0000+00	.0000+00	5.5600-09	1.0400-19
-6.6	1.0000+00	8.2300-20	.0000+00	.0000+00	4.4200-09	8.2300-20
-6.4	1.0000+00	6.5400-20	.0000+00	.0000+00	3.5100-09	6.5400-20
-6.2	1.0000+00	5.2000-20	.0000+00	.0000+00	2.7900-09	5.2000-20
-6.0	1.0000+00	4.1300-20	.0000+00	.0000+00	2.2100-09	4.1300-20
-5.8	1.0000+00	3.2800-20	.0000+00	.0000+00	1.7600-09	3.2800-20
-5.6	1.0000+00	2.6000-20	.0000+00	.0000+00	1.4000-09	2.6000-20
-5.4	1.0000+00	2.0700-20	.0000+00	.0000+00	1.1100-09	2.0700-20
-5.2	1.0000+00	1.6400-20	.0000+00	.0000+00	8.8100-10	1.6400-20
-5.0	1.0000+00	1.3100-20	.0000+00	.0000+00	7.0000-10	1.3100-20
-4.8	1.0000+00	1.0400-20	.0000+00	.0000+00	5.5600-10	1.0400-20
-4.6	1.0000+00	8.2300-21	.0000+00	.0000+00	4.4200-10	8.2300-21
-4.4	1.0000+00	6.5400-21	.0000+00	.0000+00	3.5100-10	6.5400-21
-4.2	1.0000+00	5.2000-21	.0000+00	.0000+00	2.7900-10	5.2000-21
-4.0	1.0000+00	4.1300-21	.0000+00	.0000+00	2.2100-10	4.1300-21
-3.8	1.0000+00	3.2800-21	.0000+00	.0000+00	1.7600-10	3.2800-21
-3.6	1.0000+00	2.6000-21	.0000+00	.0000+00	1.4000-10	2.6000-21
-3.4	1.0000+00	2.0700-21	.0000+00	.0000+00	1.1100-10	2.0700-21
-3.2	1.0000+00	1.6400-21	.0000+00	.0000+00	8.8100-11	1.6400-21
-3.0	1.0000+00	1.3100-21	.0000+00	.0000+00	7.0000-11	1.3100-21
-2.8	1.0000+00	1.0400-21	.0000+00	.0000+00	5.5600-11	1.0400-21
-2.6	1.0000+00	8.2300-22	.0000+00	.0000+00	4.4200-11	8.2300-22
-2.4	1.0000+00	6.5400-22	.0000+00	.0000+00	3.5100-11	6.5400-22
-2.2	1.0000+00	5.2000-22	.0000+00	.0000+00	2.7900-11	5.2000-22
-2.0	1.0000+00	4.1300-22	.0000+00	.0000+00	2.2100-11	4.1300-22
-1.8	1.0000+00	3.2800-22	.0000+00	.0000+00	1.7600-11	3.2800-22
-1.6	1.0000+00	2.6000-22	.0000+00	.0000+00	1.4000-11	2.6000-22
-1.4	1.0000+00	2.0700-22	.0000+00	.0000+00	1.1100-11	2.0700-22
-1.2	1.0000+00	1.6400-22	.0000+00	.0000+00	8.8100-12	1.6400-22
-1.0	1.0000+00	1.3100-22	.0000+00	.0000+00	7.0000-12	1.3100-22
-.8	1.0000+00	1.0400-22	.0000+00	.0000+00	5.5600-12	1.0400-22
-.6	1.0000+00	8.2400-23	.0000+00	.0000+00	4.4200-12	8.2400-23
-.4	1.0000+00	6.5400-23	.0000+00	.0000+00	3.5100-12	6.5400-23
-.2	1.0000+00	5.2000-23	.0000+00	.0000+00	2.7900-12	5.2000-23
.0	1.0000+00	4.1300-23	.0000+00	.0000+00	2.2100-12	4.1300-23
.2	1.0000+00	3.2900-23	.0000+00	.0000+00	1.7600-12	3.2900-23
.4	1.0000+00	2.6100-23	.0000+00	.0000+00	1.3900-12	2.6100-23
.6	1.0000+00	2.0800-23	.0000+00	.0000+00	1.1100-12	2.0800-23
.8	1.0000+00	1.6600-23	.0000+00	.0000+00	8.7600-13	1.6600-23
1.0	1.0000+00	1.3200-23	.0000+00	.0000+00	6.9400-13	1.3200-23
1.2	1.0000+00	1.0600-23	.0000+00	.0000+00	5.4800-13	1.0600-23
1.4	1.0000+00	8.5400-24	.0000+00	.0000+00	4.3200-13	8.5400-24
1.6	1.0000+00	6.9300-24	.0000+00	.0000+00	3.3800-13	6.9300-24
1.8	1.0000+00	5.7000-24	.0000+00	.0000+00	2.6300-13	5.7000-24
2.0	1.0000+00	4.7800-24	.0000+00	.0000+00	2.0200-13	4.7800-24
2.2	1.0000+00	4.1300-24	.0000+00	.0000+00	1.5200-13	4.1300-24

T= 1700

LUG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0000+00	2.8277+00	3.8277+00	4.3893+01	-6.2060+00	1.0000+00
-6.8	1.0000+00	2.8277+00	3.8277+00	4.3433+01	-6.0060+00	1.0000+00
-6.6	1.0000+00	2.8277+00	3.8277+00	4.2972+01	-5.8060+00	1.0000+00
-6.4	1.0000+00	2.8277+00	3.8277+00	4.2512+01	-5.6060+00	1.0000+00
-6.2	1.0000+00	2.8277+00	3.8277+00	4.2051+01	-5.4060+00	1.0000+00
-6.0	1.0000+00	2.8277+00	3.8277+00	4.1591+01	-5.2060+00	1.0000+00
-5.8	1.0000+00	2.8277+00	3.8277+00	4.1130+01	-5.0060+00	1.0000+00
-5.6	1.0000+00	2.8277+00	3.8277+00	4.0670+01	-4.8060+00	1.0000+00
-5.4	1.0000+00	2.8277+00	3.8277+00	4.0209+01	-4.6060+00	1.0000+00
-5.2	1.0000+00	2.8277+00	3.8277+00	3.9749+01	-4.4060+00	1.0000+00
-5.0	1.0000+00	2.8277+00	3.8277+00	3.9288+01	-4.2060+00	1.0000+00
-4.8	1.0000+00	2.8277+00	3.8277+00	3.8828+01	-4.0060+00	1.0000+00
-4.6	1.0000+00	2.8277+00	3.8277+00	3.8367+01	-3.8060+00	1.0000+00
-4.4	1.0000+00	2.8277+00	3.8277+00	3.7907+01	-3.6060+00	1.0000+00
-4.2	1.0000+00	2.8277+00	3.8277+00	3.7446+01	-3.4060+00	1.0000+00
-4.0	1.0000+00	2.8277+00	3.8277+00	3.6986+01	-3.2060+00	1.0000+00
-3.8	1.0000+00	2.8277+00	3.8277+00	3.6525+01	-3.0060+00	1.0000+00
-3.6	1.0000+00	2.8277+00	3.8277+00	3.6065+01	-2.8060+00	1.0000+00
-3.4	1.0000+00	2.8277+00	3.8277+00	3.5604+01	-2.6060+00	1.0000+00
-3.2	1.0000+00	2.8277+00	3.8277+00	3.5144+01	-2.4060+00	1.0000+00
-3.0	1.0000+00	2.8277+00	3.8277+00	3.4683+01	-2.2060+00	1.0000+00
-2.8	1.0000+00	2.8277+00	3.8277+00	3.4223+01	-2.0060+00	1.0000+00
-2.6	1.0000+00	2.8277+00	3.8277+00	3.3762+01	-1.8059+00	1.0000+00
-2.4	1.0000+00	2.8277+00	3.8277+00	3.3302+01	-1.6059+00	1.0000+00
-2.2	1.0000+00	2.8277+00	3.8277+00	3.2841+01	-1.4059+00	1.0000+00
-2.0	1.0000+00	2.8277+00	3.8277+00	3.2380+01	-1.2059+00	1.0000+00
-1.8	1.0000+00	2.8277+00	3.8277+00	3.1920+01	-1.0059+00	1.0000+00
-1.6	1.0000+00	2.8277+00	3.8277+00	3.1459+01	-8.0594-01	1.0000+00
-1.4	1.0001+00	2.8277+00	3.8278+00	3.0999+01	-6.0593-01	1.0000+00
-1.2	1.0001+00	2.8277+00	3.8278+00	3.0538+01	-4.0591-01	1.0000+00
-1.0	1.0001+00	2.8277+00	3.8278+00	3.0078+01	-2.0589-01	1.0000+00
-.8	1.0002+00	2.8277+00	3.8279+00	2.9617+01	-5.8505-03	1.0000+00
-.6	1.0004+00	2.8277+00	3.8280+00	2.9156+01	1.9421-01	1.0000+00
-.4	1.0006+00	2.8277+00	3.8282+00	2.8696+01	3.9430-01	1.0000+00
-.2	1.0009+00	2.8276+00	3.8285+00	2.8235+01	5.9445-01	1.0000+00
.0	1.0015+00	2.8276+00	3.8290+00	2.7774+01	7.9468-01	1.0000+00
.2	1.0023+00	2.8275+00	3.8298+00	2.7312+01	9.9506-01	1.0000+00
.4	1.0037+00	2.8274+00	3.8311+00	2.6850+01	1.1956+00	1.0000+00
.6	1.0058+00	2.8272+00	3.8330+00	2.6387+01	1.3966+00	1.0000+00
.8	1.0092+00	2.8269+00	3.8361+00	2.5923+01	1.5980+00	1.0000+00
1.0	1.0146+00	2.8264+00	3.8411+00	2.5457+01	1.8004+00	1.0000+00
1.2	1.0232+00	2.8256+00	3.8489+00	2.4987+01	2.0040+00	1.0000+00
1.4	1.0368+00	2.8244+00	3.8612+00	2.4512+01	2.2097+00	1.0000+00
1.6	1.0583+00	2.8225+00	3.8808+00	2.4028+01	2.4187+00	1.0000+00
1.8	1.0924+00	2.8195+00	3.9119+00	2.3530+01	2.6324+00	1.0000+00
2.0	1.1465+00	2.8147+00	3.9612+00	2.3011+01	2.8534+00	1.0000+00
2.2	1.2321+00	2.8071+00	4.0393+00	2.2457+01	3.0847+00	1.0000+00

T= 1800

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000+00	2.6200-18	.0000+00	.0000+00	4.4800-08	2.6200-18
-6.8	1.0000+00	2.0800-18	.0000+00	.0000+00	3.5500-08	2.0800-18
-6.6	1.0000+00	1.6500-18	.0000+00	.0000+00	2.8200-08	1.6500-18
-6.4	1.0000+00	1.3100-18	.0000+00	.0000+00	2.2400-08	1.3100-18
-6.2	1.0000+00	1.0400-18	.0000+00	.0000+00	1.7800-08	1.0400-18
-6.0	1.0000+00	8.2800-19	.0000+00	.0000+00	1.4200-08	8.2800-19
-5.8	1.0000+00	6.5700-19	.0000+00	.0000+00	1.1200-08	6.5700-19
-5.6	1.0000+00	5.2200-19	.0000+00	.0000+00	8.9300-09	5.2200-19
-5.4	1.0000+00	4.1500-19	.0000+00	.0000+00	7.0900-09	4.1500-19
-5.2	1.0000+00	3.2900-19	.0000+00	.0000+00	5.6300-09	3.2900-19
-5.0	1.0000+00	2.6200-19	.0000+00	.0000+00	4.4800-09	2.6200-19
-4.8	1.0000+00	2.0800-19	.0000+00	.0000+00	3.5500-09	2.0800-19
-4.6	1.0000+00	1.6500-19	.0000+00	.0000+00	2.8200-09	1.6500-19
-4.4	1.0000+00	1.3100-19	.0000+00	.0000+00	2.2400-09	1.3100-19
-4.2	1.0000+00	1.0400-19	.0000+00	.0000+00	1.7800-09	1.0400-19
-4.0	1.0000+00	8.2800-20	.0000+00	.0000+00	1.4200-09	8.2800-20
-3.8	1.0000+00	6.5700-20	.0000+00	.0000+00	1.1200-09	6.5700-20
-3.6	1.0000+00	5.2200-20	.0000+00	.0000+00	8.9300-10	5.2200-20
-3.4	1.0000+00	4.1500-20	.0000+00	.0000+00	7.0900-10	4.1500-20
-3.2	1.0000+00	3.2900-20	.0000+00	.0000+00	5.6300-10	3.2900-20
-3.0	1.0000+00	2.6200-20	.0000+00	.0000+00	4.4800-10	2.6200-20
-2.8	1.0000+00	2.0800-20	.0000+00	.0000+00	3.5500-10	2.0800-20
-2.6	1.0000+00	1.6500-20	.0000+00	.0000+00	2.8200-10	1.6500-20
-2.4	1.0000+00	1.3100-20	.0000+00	.0000+00	2.2400-10	1.3100-20
-2.2	1.0000+00	1.0400-20	.0000+00	.0000+00	1.7800-10	1.0400-20
-2.0	1.0000+00	8.2800-21	.0000+00	.0000+00	1.4200-10	8.2800-21
-1.8	1.0000+00	6.5700-21	.0000+00	.0000+00	1.1200-10	6.5700-21
-1.6	1.0000+00	5.2200-21	.0000+00	.0000+00	8.9300-11	5.2200-21
-1.4	1.0000+00	4.1500-21	.0000+00	.0000+00	7.0900-11	4.1500-21
-1.2	1.0000+00	3.3000-21	.0000+00	.0000+00	5.6300-11	3.3000-21
-1.0	1.0000+00	2.6200-21	.0000+00	.0000+00	4.4700-11	2.6200-21
-.8	1.0000+00	2.0800-21	.0000+00	.0000+00	3.5500-11	2.0800-21
-.6	1.0000+00	1.6500-21	.0000+00	.0000+00	2.8200-11	1.6500-21
-.4	1.0000+00	1.3100-21	.0000+00	.0000+00	2.2400-11	1.3100-21
-.2	1.0000+00	1.0400-21	.0000+00	.0000+00	1.7800-11	1.0400-21
.0	1.0000+00	8.2900-22	.0000+00	.0000+00	1.4100-11	8.2900-22
.2	1.0000+00	6.5900-22	.0000+00	.0000+00	1.1200-11	6.5900-22
.4	1.0000+00	5.2400-22	.0000+00	.0000+00	8.9100-12	5.2400-22
.6	1.0000+00	4.1700-22	.0000+00	.0000+00	7.0700-12	4.1700-22
.8	1.0000+00	3.3300-22	.0000+00	.0000+00	5.6000-12	3.3300-22
1.0	1.0000+00	2.6600-22	.0000+00	.0000+00	4.4300-12	2.6600-22
1.2	1.0000+00	2.1300-22	.0000+00	.0000+00	3.5000-12	2.1300-22
1.4	1.0000+00	1.7100-22	.0000+00	.0000+00	2.7600-12	1.7100-22
1.6	1.0000+00	1.3900-22	.0000+00	.0000+00	2.1600-12	1.3900-22
1.8	1.0000+00	1.1400-22	.0000+00	.0000+00	1.6800-12	1.1400-22
2.0	1.0000+00	9.5900-23	.0000+00	.0000+00	1.2900-12	9.5900-23
2.2	1.0000+00	8.3000-23	.0000+00	.0000+00	9.7100-13	8.3000-23

T= 1800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0000+00	2.8517+00	3.8517+00	4.4080+01	-6.1811+00	1.0000+00
-6.8	1.0000+00	2.8517+00	3.8517+00	4.3620+01	-5.9811+00	1.0000+00
-6.6	1.0000+00	2.8517+00	3.8517+00	4.3159+01	-5.7811+00	1.0000+00
-6.4	1.0000+00	2.8517+00	3.8517+00	4.2699+01	-5.5811+00	1.0000+00
-6.2	1.0000+00	2.8517+00	3.8517+00	4.2238+01	-5.3811+00	1.0000+00
-6.0	1.0000+00	2.8517+00	3.8517+00	4.1778+01	-5.1811+00	1.0000+00
-5.8	1.0000+00	2.8517+00	3.8517+00	4.1317+01	-4.9811+00	1.0000+00
-5.6	1.0000+00	2.8517+00	3.8517+00	4.0857+01	-4.7811+00	1.0000+00
-5.4	1.0000+00	2.8517+00	3.8517+00	4.0396+01	-4.5811+00	1.0000+00
-5.2	1.0000+00	2.8517+00	3.8517+00	3.9936+01	-4.3811+00	1.0000+00
-5.0	1.0000+00	2.8517+00	3.8517+00	3.9475+01	-4.1811+00	1.0000+00
-4.8	1.0000+00	2.8517+00	3.8517+00	3.9015+01	-3.9811+00	1.0000+00
-4.6	1.0000+00	2.8517+00	3.8517+00	3.8554+01	-3.7811+00	1.0000+00
-4.4	1.0000+00	2.8517+00	3.8517+00	3.8094+01	-3.5811+00	1.0000+00
-4.2	1.0000+00	2.8517+00	3.8517+00	3.7633+01	-3.3811+00	1.0000+00
-4.0	1.0000+00	2.8517+00	3.8517+00	3.7173+01	-3.1811+00	1.0000+00
-3.8	1.0000+00	2.8517+00	3.8517+00	3.6712+01	-2.9811+00	1.0000+00
-3.6	1.0000+00	2.8517+00	3.8517+00	3.6251+01	-2.7811+00	1.0000+00
-3.4	1.0000+00	2.8517+00	3.8517+00	3.5791+01	-2.5811+00	1.0000+00
-3.2	1.0000+00	2.8517+00	3.8517+00	3.5330+01	-2.3811+00	1.0000+00
-3.0	1.0000+00	2.8517+00	3.8517+00	3.4870+01	-2.1811+00	1.0000+00
-2.8	1.0000+00	2.8517+00	3.8517+00	3.4409+01	-1.9811+00	1.0000+00
-2.6	1.0000+00	2.8517+00	3.8517+00	3.3949+01	-1.7811+00	1.0000+00
-2.4	1.0000+00	2.8517+00	3.8517+00	3.3488+01	-1.5811+00	1.0000+00
-2.2	1.0000+00	2.8517+00	3.8517+00	3.3028+01	-1.3811+00	1.0000+00
-2.0	1.0000+00	2.8517+00	3.8517+00	3.2567+01	-1.1811+00	1.0000+00
-1.8	1.0000+00	2.8517+00	3.8517+00	3.2107+01	-9.8112-01	1.0000+00
-1.6	1.0000+00	2.8517+00	3.8517+00	3.1646+01	-7.8111-01	1.0000+00
-1.4	1.0001+00	2.8517+00	3.8518+00	3.1186+01	-5.8110-01	1.0000+00
-1.2	1.0001+00	2.8517+00	3.8518+00	3.0725+01	-3.8109-01	1.0000+00
-1.0	1.0001+00	2.8517+00	3.8518+00	3.0265+01	-1.8106-01	1.0000+00
-.8	1.0002+00	2.8517+00	3.8519+00	2.9804+01	1.8973-02	1.0000+00
-.6	1.0004+00	2.8517+00	3.8520+00	2.9343+01	2.1903-01	1.0000+00
-.4	1.0006+00	2.8517+00	3.8522+00	2.8883+01	4.1913-01	1.0000+00
-.2	1.0009+00	2.8516+00	3.8526+00	2.8422+01	6.1928-01	1.0000+00
.0	1.0015+00	2.8516+00	3.8531+00	2.7961+01	8.1951-01	1.0000+00
.2	1.0023+00	2.8515+00	3.8539+00	2.7499+01	1.0199+00	1.0000+00
.4	1.0037+00	2.8514+00	3.8551+00	2.7037+01	1.2205+00	1.0000+00
.6	1.0059+00	2.8513+00	3.8571+00	2.6574+01	1.4214+00	1.0000+00
.8	1.0093+00	2.8510+00	3.8603+00	2.6110+01	1.6229+00	1.0000+00
1.0	1.0147+00	2.8507+00	3.8654+00	2.5644+01	1.8252+00	1.0000+00
1.2	1.0233+00	2.8500+00	3.8734+00	2.5174+01	2.0289+00	1.0000+00
1.4	1.0370+00	2.8491+00	3.8860+00	2.4699+01	2.2346+00	1.0000+00
1.6	1.0586+00	2.8475+00	3.9061+00	2.4215+01	2.4436+00	1.0000+00
1.8	1.0928+00	2.8451+00	3.9379+00	2.3718+01	2.6574+00	1.0000+00
2.0	1.1471+00	2.8412+00	3.9884+00	2.3199+01	2.8785+00	1.0000+00
2.2	1.2332+00	2.8351+00	4.0683+00	2.2647+01	3.1099+00	1.0000+00

T= 1900

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000+00	3.8400-17	.0000+00	.0000+00	2.3500-07	3.8400-17
-6.8	1.0000+00	3.0500-17	.0000+00	.0000+00	1.8700-07	3.0500-17
-6.6	1.0000+00	2.4200-17	.0000+00	.0000+00	1.4800-07	2.4200-17
-6.4	1.0000+00	1.9200-17	.0000+00	.0000+00	1.1800-07	1.9200-17
-6.2	1.0000+00	1.5300-17	.0000+00	.0000+00	9.3600-08	1.5300-17
-6.0	1.0000+00	1.2100-17	.0000+00	.0000+00	7.4400-08	1.2100-17
-5.8	1.0000+00	9.6400-18	.0000+00	.0000+00	5.9100-08	9.6400-18
-5.6	1.0000+00	7.6600-18	.0000+00	.0000+00	4.6900-08	7.6600-18
-5.4	1.0000+00	6.0800-18	.0000+00	.0000+00	3.7300-08	6.0800-18
-5.2	1.0000+00	4.8300-18	.0000+00	.0000+00	2.9600-08	4.8300-18
-5.0	1.0000+00	3.8400-18	.0000+00	.0000+00	2.3500-08	3.8400-18
-4.8	1.0000+00	3.0500-18	.0000+00	.0000+00	1.8700-08	3.0500-18
-4.6	1.0000+00	2.4200-18	.0000+00	.0000+00	1.4800-08	2.4200-18
-4.4	1.0000+00	1.9200-18	.0000+00	.0000+00	1.1800-08	1.9200-18
-4.2	1.0000+00	1.5300-18	.0000+00	.0000+00	9.3600-09	1.5300-18
-4.0	1.0000+00	1.2100-18	.0000+00	.0000+00	7.4400-09	1.2100-18
-3.8	1.0000+00	9.6400-19	.0000+00	.0000+00	5.9100-09	9.6400-19
-3.6	1.0000+00	7.6600-19	.0000+00	.0000+00	4.6900-09	7.6600-19
-3.4	1.0000+00	6.0800-19	.0000+00	.0000+00	3.7300-09	6.0800-19
-3.2	1.0000+00	4.8300-19	.0000+00	.0000+00	2.9600-09	4.8300-19
-3.0	1.0000+00	3.8400-19	.0000+00	.0000+00	2.3500-09	3.8400-19
-2.8	1.0000+00	3.0500-19	.0000+00	.0000+00	1.8700-09	3.0500-19
-2.6	1.0000+00	2.4200-19	.0000+00	.0000+00	1.4800-09	2.4200-19
-2.4	1.0000+00	1.9200-19	.0000+00	.0000+00	1.1800-09	1.9200-19
-2.2	1.0000+00	1.5300-19	.0000+00	.0000+00	9.3600-10	1.5300-19
-2.0	1.0000+00	1.2100-19	.0000+00	.0000+00	7.4400-10	1.2100-19
-1.8	1.0000+00	9.6400-20	.0000+00	.0000+00	5.9100-10	9.6400-20
-1.6	1.0000+00	7.6600-20	.0000+00	.0000+00	4.6900-10	7.6600-20
-1.4	1.0000+00	6.0800-20	.0000+00	.0000+00	3.7300-10	6.0800-20
-1.2	1.0000+00	4.8300-20	.0000+00	.0000+00	2.9600-10	4.8300-20
-1.0	1.0000+00	3.8400-20	.0000+00	.0000+00	2.3500-10	3.8400-20
-.8	1.0000+00	3.0500-20	.0000+00	.0000+00	1.8700-10	3.0500-20
-.6	1.0000+00	2.4200-20	.0000+00	.0000+00	1.4800-10	2.4200-20
-.4	1.0000+00	1.9200-20	.0000+00	.0000+00	1.1800-10	1.9200-20
-.2	1.0000+00	1.5300-20	.0000+00	.0000+00	9.3600-11	1.5300-20
.0	1.0000+00	1.2200-20	.0000+00	.0000+00	7.4300-11	1.2200-20
.2	1.0000+00	9.6600-21	.0000+00	.0000+00	5.9000-11	9.6600-21
.4	1.0000+00	7.6900-21	.0000+00	.0000+00	4.6800-11	7.6900-21
.6	1.0000+00	6.1200-21	.0000+00	.0000+00	3.7100-11	6.1200-21
.8	1.0000+00	4.8800-21	.0000+00	.0000+00	2.9400-11	4.8800-21
1.0	1.0000+00	3.9000-21	.0000+00	.0000+00	2.3300-11	3.9000-21
1.2	1.0000+00	3.1200-21	.0000+00	.0000+00	1.8400-11	3.1200-21
1.4	1.0000+00	2.5100-21	.0000+00	.0000+00	1.4500-11	2.5100-21
1.6	1.0000+00	2.0400-21	.0000+00	.0000+00	1.1400-11	2.0400-21
1.8	1.0000+00	1.6800-21	.0000+00	.0000+00	8.8400-12	1.6800-21
2.0	1.0000+00	1.4100-21	.0000+00	.0000+00	6.7900-12	1.4100-21
2.2	1.0000+00	1.2200-21	.0000+00	.0000+00	5.1100-12	1.2200-21



T= 1900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0000+00	2.8749+00	3.8749+00	4.4258+01	-6.1576+00	1.0000+00
-6.8	1.0000+00	2.8749+00	3.8749+00	4.3798+01	-5.9576+00	1.0000+00
-6.6	1.0000+00	2.8749+00	3.8749+00	4.3337+01	-5.7576+00	1.0000+00
-6.4	1.0000+00	2.8749+00	3.8749+00	4.2877+01	-5.5576+00	1.0000+00
-6.2	1.0000+00	2.8749+00	3.8749+00	4.2416+01	-5.3576+00	1.0000+00
-6.0	1.0000+00	2.8749+00	3.8749+00	4.1956+01	-5.1576+00	1.0000+00
-5.8	1.0000+00	2.8749+00	3.8749+00	4.1495+01	-4.9576+00	1.0000+00
-5.6	1.0000+00	2.8749+00	3.8749+00	4.1035+01	-4.7576+00	1.0000+00
-5.4	1.0000+00	2.8749+00	3.8749+00	4.0574+01	-4.5576+00	1.0000+00
-5.2	1.0000+00	2.8749+00	3.8749+00	4.0114+01	-4.3576+00	1.0000+00
-5.0	1.0000+00	2.8749+00	3.8749+00	3.9653+01	-4.1576+00	1.0000+00
-4.8	1.0000+00	2.8749+00	3.8749+00	3.9193+01	-3.9576+00	1.0000+00
-4.6	1.0000+00	2.8749+00	3.8749+00	3.8732+01	-3.7576+00	1.0000+00
-4.4	1.0000+00	2.8749+00	3.8749+00	3.8272+01	-3.5576+00	1.0000+00
-4.2	1.0000+00	2.8749+00	3.8749+00	3.7811+01	-3.3576+00	1.0000+00
-4.0	1.0000+00	2.8749+00	3.8749+00	3.7351+01	-3.1576+00	1.0000+00
-3.8	1.0000+00	2.8749+00	3.8749+00	3.6890+01	-2.9576+00	1.0000+00
-3.6	1.0000+00	2.8749+00	3.8749+00	3.6430+01	-2.7576+00	1.0000+00
-3.4	1.0000+00	2.8749+00	3.8749+00	3.5969+01	-2.5576+00	1.0000+00
-3.2	1.0000+00	2.8749+00	3.8749+00	3.5509+01	-2.3576+00	1.0000+00
-3.0	1.0000+00	2.8749+00	3.8749+00	3.5048+01	-2.1576+00	1.0000+00
-2.8	1.0000+00	2.8749+00	3.8749+00	3.4588+01	-1.9576+00	1.0000+00
-2.6	1.0000+00	2.8749+00	3.8749+00	3.4127+01	-1.7576+00	1.0000+00
-2.4	1.0000+00	2.8749+00	3.8749+00	3.3667+01	-1.5576+00	1.0000+00
-2.2	1.0000+00	2.8749+00	3.8749+00	3.3206+01	-1.3576+00	1.0000+00
-2.0	1.0000+00	2.8749+00	3.8749+00	3.2745+01	-1.1576+00	1.0000+00
-1.8	1.0000+00	2.8749+00	3.8749+00	3.2285+01	-9.5764-01	1.0000+00
-1.6	1.0000+00	2.8749+00	3.8749+00	3.1824+01	-7.5763-01	1.0000+00
-1.4	1.0001+00	2.8749+00	3.8750+00	3.1364+01	-5.5762-01	1.0000+00
-1.2	1.0001+00	2.8749+00	3.8750+00	3.0903+01	-3.5761-01	1.0000+00
-1.0	1.0001+00	2.8749+00	3.8750+00	3.0443+01	-1.5758-01	1.0000+00
-.8	1.0002+00	2.8749+00	3.8751+00	2.9982+01	4.2455-02	1.0000+00
-.6	1.0004+00	2.8749+00	3.8753+00	2.9521+01	2.4251-01	1.0000+00
-.4	1.0006+00	2.8749+00	3.8755+00	2.9061+01	4.4261-01	1.0000+00
-.2	1.0009+00	2.8749+00	3.8758+00	2.8600+01	6.4276-01	1.0000+00
.0	1.0015+00	2.8748+00	3.8763+00	2.8139+01	8.4299-01	1.0000+00
.2	1.0023+00	2.8748+00	3.8771+00	2.7677+01	1.0434+00	1.0000+00
.4	1.0037+00	2.8747+00	3.8784+00	2.7215+01	1.2440+00	1.0000+00
.6	1.0059+00	2.8746+00	3.8805+00	2.6753+01	1.4449+00	1.0000+00
.8	1.0093+00	2.8744+00	3.8837+00	2.6288+01	1.6464+00	1.0000+00
1.0	1.0148+00	2.8741+00	3.8888+00	2.5822+01	1.8487+00	1.0000+00
1.2	1.0234+00	2.8736+00	3.8970+00	2.5353+01	2.0524+00	1.0000+00
1.4	1.0371+00	2.8728+00	3.9099+00	2.4878+01	2.2582+00	1.0000+00
1.6	1.0588+00	2.8716+00	3.9304+00	2.4394+01	2.4672+00	1.0000+00
1.8	1.0932+00	2.8697+00	3.9629+00	2.3897+01	2.6810+00	1.0000+00
2.0	1.1476+00	2.8667+00	4.0143+00	2.3379+01	2.9022+00	1.0000+00
2.2	1.2340+00	2.8619+00	4.0958+00	2.2828+01	3.1337+00	1.0000+00

T= 2000

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000+00	4.3100-16	.0000+00	.0000+00	1.0500-06	4.3100-16
-6.8	1.0000+00	3.4300-16	.0000+00	.0000+00	8.3200-07	3.4300-16
-6.6	1.0000+00	2.7200-16	.0000+00	.0000+00	6.6100-07	2.7200-16
-6.4	1.0000+00	2.1600-16	.0000+00	.0000+00	5.2500-07	2.1600-16
-6.2	1.0000+00	1.7200-16	.0000+00	.0000+00	4.1700-07	1.7200-16
-6.0	1.0000+00	1.3600-16	.0000+00	.0000+00	3.3100-07	1.3600-16
-5.8	1.0000+00	1.0800-16	.0000+00	.0000+00	2.6300-07	1.0800-16
-5.6	1.0000+00	8.6100-17	.0000+00	.0000+00	2.0900-07	8.6100-17
-5.4	1.0000+00	6.8400-17	.0000+00	.0000+00	1.6600-07	6.8400-17
-5.2	1.0000+00	5.4300-17	.0000+00	.0000+00	1.3200-07	5.4300-17
-5.0	1.0000+00	4.3100-17	.0000+00	.0000+00	1.0500-07	4.3100-17
-4.8	1.0000+00	3.4300-17	.0000+00	.0000+00	8.3200-08	3.4300-17
-4.6	1.0000+00	2.7200-17	.0000+00	.0000+00	6.6100-08	2.7200-17
-4.4	1.0000+00	2.1600-17	.0000+00	.0000+00	5.2500-08	2.1600-17
-4.2	1.0000+00	1.7200-17	.0000+00	.0000+00	4.1700-08	1.7200-17
-4.0	1.0000+00	1.3600-17	.0000+00	.0000+00	3.3100-08	1.3600-17
-3.8	1.0000+00	1.0800-17	.0000+00	.0000+00	2.6300-08	1.0800-17
-3.6	1.0000+00	8.6100-18	.0000+00	.0000+00	2.0900-08	8.6100-18
-3.4	1.0000+00	6.8400-18	.0000+00	.0000+00	1.6600-08	6.8400-18
-3.2	1.0000+00	5.4300-18	.0000+00	.0000+00	1.3200-08	5.4300-18
-3.0	1.0000+00	4.3100-18	.0000+00	.0000+00	1.0500-08	4.3100-18
-2.8	1.0000+00	3.4300-18	.0000+00	.0000+00	8.3200-09	3.4300-18
-2.6	1.0000+00	2.7200-18	.0000+00	.0000+00	6.6100-09	2.7200-18
-2.4	1.0000+00	2.1600-18	.0000+00	.0000+00	5.2500-09	2.1600-18
-2.2	1.0000+00	1.7200-18	.0000+00	.0000+00	4.1700-09	1.7200-18
-2.0	1.0000+00	1.3600-18	.0000+00	.0000+00	3.3100-09	1.3600-18
-1.8	1.0000+00	1.0800-18	.0000+00	.0000+00	2.6300-09	1.0800-18
-1.6	1.0000+00	8.6100-19	.0000+00	.0000+00	2.0900-09	8.6100-19
-1.4	1.0000+00	6.8400-19	.0000+00	.0000+00	1.6600-09	6.8400-19
-1.2	1.0000+00	5.4300-19	.0000+00	.0000+00	1.3200-09	5.4300-19
-1.0	1.0000+00	4.3100-19	.0000+00	.0000+00	1.0500-09	4.3100-19
-.8	1.0000+00	3.4300-19	.0000+00	.0000+00	8.3200-10	3.4300-19
-.6	1.0000+00	2.7200-19	.0000+00	.0000+00	6.6100-10	2.7200-19
-.4	1.0000+00	2.1600-19	.0000+00	.0000+00	5.2500-10	2.1600-19
-.2	1.0000+00	1.7200-19	.0000+00	.0000+00	4.1700-10	1.7200-19
.0	1.0000+00	1.3700-19	.0000+00	.0000+00	3.3100-10	1.3700-19
.2	1.0000+00	1.0900-19	.0000+00	.0000+00	2.6300-10	1.0900-19
.4	1.0000+00	8.6400-20	.0000+00	.0000+00	2.0800-10	8.6400-20
.6	1.0000+00	6.8800-20	.0000+00	.0000+00	1.6500-10	6.8800-20
.8	1.0000+00	5.4800-20	.0000+00	.0000+00	1.3100-10	5.4800-20
1.0	1.0000+00	4.3800-20	.0000+00	.0000+00	1.0400-10	4.3800-20
1.2	1.0000+00	3.5100-20	.0000+00	.0000+00	8.2000-11	3.5100-20
1.4	1.0000+00	2.8200-20	.0000+00	.0000+00	6.4600-11	2.8200-20
1.6	1.0000+00	2.2900-20	.0000+00	.0000+00	5.0600-11	2.2900-20
1.8	1.0000+00	1.8900-20	.0000+00	.0000+00	3.9400-11	1.8900-20
2.0	1.0000+00	1.5800-20	.0000+00	.0000+00	3.0200-11	1.5800-20
2.2	1.0000+00	1.3700-20	.0000+00	.0000+00	2.2800-11	1.3700-20

T= 2000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0000+00	2.8973+00	3.8973+00	4.4429+01	-6.1354+00	1.0000+00
-6.8	1.0000+00	2.8973+00	3.8973+00	4.3968+01	-5.9354+00	1.0000+00
-6.6	1.0000+00	2.8973+00	3.8973+00	4.3507+01	-5.7354+00	1.0000+00
-6.4	1.0000+00	2.8973+00	3.8973+00	4.3047+01	-5.5354+00	1.0000+00
-6.2	1.0000+00	2.8973+00	3.8973+00	4.2586+01	-5.3354+00	1.0000+00
-6.0	1.0000+00	2.8973+00	3.8973+00	4.2126+01	-5.1354+00	1.0000+00
-5.8	1.0000+00	2.8973+00	3.8973+00	4.1665+01	-4.9354+00	1.0000+00
-5.6	1.0000+00	2.8973+00	3.8973+00	4.1205+01	-4.7354+00	1.0000+00
-5.4	1.0000+00	2.8973+00	3.8973+00	4.0744+01	-4.5354+00	1.0000+00
-5.2	1.0000+00	2.8973+00	3.8973+00	4.0284+01	-4.3354+00	1.0000+00
-5.0	1.0000+00	2.8973+00	3.8973+00	3.9823+01	-4.1354+00	1.0000+00
-4.8	1.0000+00	2.8973+00	3.8973+00	3.9363+01	-3.9354+00	1.0000+00
-4.6	1.0000+00	2.8973+00	3.8973+00	3.8902+01	-3.7354+00	1.0000+00
-4.4	1.0000+00	2.8973+00	3.8973+00	3.8442+01	-3.5354+00	1.0000+00
-4.2	1.0000+00	2.8973+00	3.8973+00	3.7981+01	-3.3354+00	1.0000+00
-4.0	1.0000+00	2.8973+00	3.8973+00	3.7521+01	-3.1354+00	1.0000+00
-3.8	1.0000+00	2.8973+00	3.8973+00	3.7060+01	-2.9354+00	1.0000+00
-3.6	1.0000+00	2.8973+00	3.8973+00	3.6600+01	-2.7354+00	1.0000+00
-3.4	1.0000+00	2.8973+00	3.8973+00	3.6139+01	-2.5354+00	1.0000+00
-3.2	1.0000+00	2.8973+00	3.8973+00	3.5679+01	-2.3354+00	1.0000+00
-3.0	1.0000+00	2.8973+00	3.8973+00	3.5218+01	-2.1354+00	1.0000+00
-2.8	1.0000+00	2.8973+00	3.8973+00	3.4758+01	-1.9354+00	1.0000+00
-2.6	1.0000+00	2.8973+00	3.8973+00	3.4297+01	-1.7354+00	1.0000+00
-2.4	1.0000+00	2.8973+00	3.8973+00	3.3837+01	-1.5354+00	1.0000+00
-2.2	1.0000+00	2.8973+00	3.8973+00	3.3376+01	-1.3354+00	1.0000+00
-2.0	1.0000+00	2.8973+00	3.8973+00	3.2916+01	-1.1354+00	1.0000+00
-1.8	1.0000+00	2.8973+00	3.8973+00	3.2455+01	-9.3536-01	1.0000+00
-1.6	1.0000+00	2.8973+00	3.8973+00	3.1995+01	-7.3535-01	1.0000+00
-1.4	1.0001+00	2.8973+00	3.8974+00	3.1534+01	-5.3534-01	1.0000+00
-1.2	1.0001+00	2.8973+00	3.8974+00	3.1073+01	-3.3533-01	1.0000+00
-1.0	1.0001+00	2.8973+00	3.8974+00	3.0613+01	-1.3531-01	1.0000+00
-.8	1.0002+00	2.8973+00	3.8975+00	3.0152+01	6.4732-02	1.0000+00
-.6	1.0004+00	2.8973+00	3.8977+00	2.9692+01	2.6479-01	1.0000+00
-.4	1.0006+00	2.8973+00	3.8979+00	2.9231+01	4.6489-01	1.0000+00
-.2	1.0009+00	2.8973+00	3.8982+00	2.8770+01	6.6504-01	1.0000+00
.0	1.0015+00	2.8972+00	3.8987+00	2.8309+01	8.6527-01	1.0000+00
.2	1.0023+00	2.8972+00	3.8995+00	2.7847+01	1.0656+00	1.0000+00
.4	1.0037+00	2.8971+00	3.9009+00	2.7386+01	1.2662+00	1.0000+00
.6	1.0059+00	2.8971+00	3.9029+00	2.6923+01	1.4672+00	1.0000+00
.8	1.0093+00	2.8969+00	3.9062+00	2.6459+01	1.6687+00	1.0000+00
1.0	1.0148+00	2.8967+00	3.9115+00	2.5992+01	1.8710+00	1.0000+00
1.2	1.0235+00	2.8963+00	3.9198+00	2.5523+01	2.0747+00	1.0000+00
1.4	1.0372+00	2.8957+00	3.9329+00	2.5048+01	2.2805+00	1.0000+00
1.6	1.0589+00	2.8948+00	3.9537+00	2.4565+01	2.4895+00	1.0000+00
1.8	1.0934+00	2.8934+00	3.9868+00	2.4068+01	2.7034+00	1.0000+00
2.0	1.1480+00	2.8911+00	4.0391+00	2.3551+01	2.9246+00	1.0000+00
2.2	1.2346+00	2.8874+00	4.1220+00	2.3000+01	3.1561+00	1.0000+00

T= 2100

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000+00	3.8500-15	5.0900-18	.0000+00	4.0400-06	3.8600-15
-6.8	1.0000+00	3.0600-15	3.2100-18	.0000+00	3.2100-06	3.0600-15
-6.6	1.0000+00	2.4300-15	2.0300-18	.0000+00	2.5500-06	2.4300-15
-6.4	1.0000+00	1.9300-15	1.2800-18	.0000+00	2.0300-06	1.9300-15
-6.2	1.0000+00	1.5300-15	8.0800-19	.0000+00	1.6100-06	1.5400-15
-6.0	1.0000+00	1.2200-15	5.1000-19	.0000+00	1.2800-06	1.2200-15
-5.8	1.0000+00	9.6900-16	3.2200-19	.0000+00	1.0200-06	9.6900-16
-5.6	1.0000+00	7.6900-16	2.0300-19	.0000+00	8.0600-07	7.7000-16
-5.4	1.0000+00	6.1100-16	1.2800-19	.0000+00	6.4000-07	6.1100-16
-5.2	1.0000+00	4.8500-16	8.0800-20	.0000+00	5.0900-07	4.8600-16
-5.0	1.0000+00	3.8600-16	5.1000-20	.0000+00	4.0400-07	3.8600-16
-4.8	1.0000+00	3.0600-16	3.2200-20	.0000+00	3.2100-07	3.0600-16
-4.6	1.0000+00	2.4300-16	2.0300-20	.0000+00	2.5500-07	2.4300-16
-4.4	1.0000+00	1.9300-16	1.2800-20	.0000+00	2.0300-07	1.9300-16
-4.2	1.0000+00	1.5400-16	8.0800-21	.0000+00	1.6100-07	1.5400-16
-4.0	1.0000+00	1.2200-16	5.1000-21	.0000+00	1.2800-07	1.2200-16
-3.8	1.0000+00	9.6900-17	3.2200-21	.0000+00	1.0200-07	9.6900-17
-3.6	1.0000+00	7.6900-17	2.0300-21	.0000+00	8.0600-08	7.6900-17
-3.4	1.0000+00	6.1100-17	1.2800-21	.0000+00	6.4000-08	6.1100-17
-3.2	1.0000+00	4.8600-17	8.0800-22	.0000+00	5.0900-08	4.8600-17
-3.0	1.0000+00	3.8600-17	5.1000-22	.0000+00	4.0400-08	3.8600-17
-2.8	1.0000+00	3.0600-17	3.2200-22	.0000+00	3.2100-08	3.0600-17
-2.6	1.0000+00	2.4300-17	2.0300-22	.0000+00	2.5500-08	2.4300-17
-2.4	1.0000+00	1.9300-17	1.2800-22	.0000+00	2.0300-08	1.9300-17
-2.2	1.0000+00	1.5400-17	8.0800-23	.0000+00	1.6100-08	1.5400-17
-2.0	1.0000+00	1.2200-17	5.1000-23	.0000+00	1.2800-08	1.2200-17
-1.8	1.0000+00	9.6900-18	3.2200-23	.0000+00	1.0200-08	9.6900-18
-1.6	1.0000+00	7.7000-18	2.0300-23	.0000+00	8.0600-09	7.7000-18
-1.4	1.0000+00	6.1100-18	1.2800-23	.0000+00	6.4000-09	6.1100-18
-1.2	1.0000+00	4.8600-18	8.0800-24	.0000+00	5.0900-09	4.8600-18
-1.0	1.0000+00	3.8600-18	5.1000-24	.0000+00	4.0400-09	3.8600-18
-.8	1.0000+00	3.0600-18	3.2200-24	.0000+00	3.2100-09	3.0600-18
-.6	1.0000+00	2.4300-18	2.0300-24	.0000+00	2.5500-09	2.4300-18
-.4	1.0000+00	1.9300-18	1.2800-24	.0000+00	2.0200-09	1.9300-18
-.2	1.0000+00	1.5400-18	8.1200-25	.0000+00	1.6100-09	1.5400-18
.0	1.0000+00	1.2200-18	5.1400-25	.0000+00	1.2800-09	1.2200-18
.2	1.0000+00	9.7100-19	3.2600-25	.0000+00	1.0100-09	9.7100-19
.4	1.0000+00	7.7200-19	2.0700-25	.0000+00	8.0400-10	7.7200-19
.6	1.0000+00	6.1500-19	1.3200-25	.0000+00	6.3800-10	6.1500-19
.8	1.0000+00	4.9000-19	8.4900-26	.0000+00	5.0600-10	4.9000-19
1.0	1.0000+00	3.9100-19	5.5100-26	.0000+00	4.0000-10	3.9100-19
1.2	1.0000+00	3.1400-19	3.6400-26	.0000+00	3.1600-10	3.1400-19
1.4	1.0000+00	2.5300-19	2.4700-26	.0000+00	2.4900-10	2.5300-19
1.6	1.0000+00	2.0500-19	1.7500-26	.0000+00	1.9500-10	2.0500-19
1.8	1.0000+00	1.6900-19	1.3200-26	.0000+00	1.5200-10	1.6900-19
2.0	1.0000+00	1.4100-19	1.1100-26	.0000+00	1.1700-10	1.4100-19
2.2	1.0000+00	1.2300-19	1.1100-26	.0000+00	8.7900-11	1.2300-19

T= 2100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0000+00	2.9180+00	3.9180+00	4.4591+01	-6.1142+00	1.0000+00
-6.8	1.0000+00	2.9180+00	3.9180+00	4.4131+01	-5.9142+00	1.0000+00
-6.6	1.0000+00	2.9180+00	3.9180+00	4.3670+01	-5.7142+00	1.0000+00
-6.4	1.0000+00	2.9180+00	3.9180+00	4.3210+01	-5.5142+00	1.0000+00
-6.2	1.0000+00	2.9179+00	3.9179+00	4.2749+01	-5.3142+00	1.0000+00
-6.0	1.0000+00	2.9179+00	3.9179+00	4.2289+01	-5.1142+00	1.0000+00
-5.8	1.0000+00	2.9179+00	3.9179+00	4.1828+01	-4.9142+00	1.0000+00
-5.6	1.0000+00	2.9179+00	3.9179+00	4.1368+01	-4.7142+00	1.0000+00
-5.4	1.0000+00	2.9179+00	3.9179+00	4.0907+01	-4.5142+00	1.0000+00
-5.2	1.0000+00	2.9179+00	3.9179+00	4.0447+01	-4.3142+00	1.0000+00
-5.0	1.0000+00	2.9179+00	3.9179+00	3.9986+01	-4.1142+00	1.0000+00
-4.8	1.0000+00	2.9179+00	3.9179+00	3.9526+01	-3.9142+00	1.0000+00
-4.6	1.0000+00	2.9179+00	3.9179+00	3.9065+01	-3.7142+00	1.0000+00
-4.4	1.0000+00	2.9179+00	3.9179+00	3.8605+01	-3.5142+00	1.0000+00
-4.2	1.0000+00	2.9179+00	3.9179+00	3.8144+01	-3.3142+00	1.0000+00
-4.0	1.0000+00	2.9179+00	3.9179+00	3.7684+01	-3.1142+00	1.0000+00
-3.8	1.0000+00	2.9179+00	3.9179+00	3.7223+01	-2.9142+00	1.0000+00
-3.6	1.0000+00	2.9179+00	3.9179+00	3.6763+01	-2.7142+00	1.0000+00
-3.4	1.0000+00	2.9179+00	3.9179+00	3.6302+01	-2.5142+00	1.0000+00
-3.2	1.0000+00	2.9179+00	3.9179+00	3.5841+01	-2.3142+00	1.0000+00
-3.0	1.0000+00	2.9179+00	3.9179+00	3.5381+01	-2.1142+00	1.0000+00
-2.8	1.0000+00	2.9179+00	3.9179+00	3.4920+01	-1.9142+00	1.0000+00
-2.6	1.0000+00	2.9179+00	3.9179+00	3.4460+01	-1.7142+00	1.0000+00
-2.4	1.0000+00	2.9179+00	3.9179+00	3.3999+01	-1.5142+00	1.0000+00
-2.2	1.0000+00	2.9179+00	3.9179+00	3.3539+01	-1.3142+00	1.0000+00
-2.0	1.0000+00	2.9179+00	3.9179+00	3.3078+01	-1.1142+00	1.0000+00
-1.8	1.0000+00	2.9179+00	3.9179+00	3.2618+01	-9.1417-01	1.0000+00
-1.6	1.0000+00	2.9179+00	3.9179+00	3.2157+01	-7.1416-01	1.0000+00
-1.4	1.0001+00	2.9179+00	3.9180+00	3.1697+01	-5.1416-01	1.0000+00
-1.2	1.0001+00	2.9179+00	3.9180+00	3.1236+01	-3.1414-01	1.0000+00
-1.0	1.0001+00	2.9179+00	3.9180+00	3.0776+01	-1.1412-01	1.0000+00
-.8	1.0002+00	2.9179+00	3.9181+00	3.0315+01	8.5921-02	1.0000+00
-.6	1.0004+00	2.9179+00	3.9183+00	2.9854+01	2.8598-01	1.0000+00
-.4	1.0006+00	2.9179+00	3.9185+00	2.9394+01	4.8608-01	1.0000+00
-.2	1.0009+00	2.9179+00	3.9188+00	2.8933+01	6.8623-01	1.0000+00
.0	1.0015+00	2.9179+00	3.9193+00	2.8472+01	8.8646-01	1.0000+00
.2	1.0023+00	2.9178+00	3.9202+00	2.8010+01	1.0868+00	1.0000+00
.4	1.0037+00	2.9178+00	3.9215+00	2.7548+01	1.2874+00	1.0000+00
.6	1.0059+00	2.9177+00	3.9236+00	2.7086+01	1.4884+00	1.0000+00
.8	1.0094+00	2.9176+00	3.9270+00	2.6622+01	1.6899+00	1.0000+00
1.0	1.0148+00	2.9175+00	3.9323+00	2.6155+01	1.8922+00	1.0000+00
1.2	1.0235+00	2.9172+00	3.9407+00	2.5686+01	2.0959+00	1.0000+00
1.4	1.0372+00	2.9168+00	3.9540+00	2.5211+01	2.3017+00	1.0000+00
1.6	1.0590+00	2.9161+00	3.9752+00	2.4728+01	2.5107+00	1.0000+00
1.8	1.0936+00	2.9151+00	4.0086+00	2.4232+01	2.7247+00	1.0000+00
2.0	1.1483+00	2.9135+00	4.0617+00	2.3715+01	2.9459+00	1.0000+00
2.2	1.2350+00	2.9109+00	4.1459+00	2.3166+01	3.1775+00	1.0000+00

T= 2200

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000+00	2.8300-14	9.7900-17	.0000+00	1.3800-05	2.8400-14
-6.8	1.0000+00	2.2500-14	6.1800-17	.0000+00	1.1000-05	2.2500-14
-6.6	1.0000+00	1.7900-14	3.9000-17	.0000+00	8.7000-06	1.7900-14
-6.4	1.0000+00	1.4200-14	2.4600-17	.0000+00	6.9100-06	1.4200-14
-6.2	1.0000+00	1.1300-14	1.5500-17	.0000+00	5.4900-06	1.1300-14
-6.0	1.0000+00	8.9600-15	9.8100-18	.0000+00	4.3600-06	8.9700-15
-5.8	1.0000+00	7.1100-15	6.1900-18	.0000+00	3.4700-06	7.1200-15
-5.6	1.0000+00	5.6500-15	3.9000-18	.0000+00	2.7500-06	5.6600-15
-5.4	1.0000+00	4.4900-15	2.4600-18	.0000+00	2.1900-06	4.4900-15
-5.2	1.0000+00	3.5700-15	1.5500-18	.0000+00	1.7400-06	3.5700-15
-5.0	1.0000+00	2.8300-15	9.8100-19	.0000+00	1.3800-06	2.8300-15
-4.8	1.0000+00	2.2500-15	6.1900-19	.0000+00	1.1000-06	2.2500-15
-4.6	1.0000+00	1.7900-15	3.9100-19	.0000+00	8.7000-07	1.7900-15
-4.4	1.0000+00	1.4200-15	2.4600-19	.0000+00	6.9100-07	1.4200-15
-4.2	1.0000+00	1.1300-15	1.5500-19	.0000+00	5.4900-07	1.1300-15
-4.0	1.0000+00	8.9600-16	9.8100-20	.0000+00	4.3600-07	8.9600-16
-3.8	1.0000+00	7.1200-16	6.1900-20	.0000+00	3.4700-07	7.1200-16
-3.6	1.0000+00	5.6500-16	3.9100-20	.0000+00	2.7500-07	5.6500-16
-3.4	1.0000+00	4.4900-16	2.4600-20	.0000+00	2.1900-07	4.4900-16
-3.2	1.0000+00	3.5700-16	1.5600-20	.0000+00	1.7400-07	3.5700-16
-3.0	1.0000+00	2.8300-16	9.8100-21	.0000+00	1.3800-07	2.8300-16
-2.8	1.0000+00	2.2500-16	6.1900-21	.0000+00	1.1000-07	2.2500-16
-2.6	1.0000+00	1.7900-16	3.9100-21	.0000+00	8.7000-08	1.7900-16
-2.4	1.0000+00	1.4200-16	2.4600-21	.0000+00	6.9100-08	1.4200-16
-2.2	1.0000+00	1.1300-16	1.5600-21	.0000+00	5.4900-08	1.1300-16
-2.0	1.0000+00	8.9600-17	9.8100-22	.0000+00	4.3600-08	8.9600-17
-1.8	1.0000+00	7.1200-17	6.1900-22	.0000+00	3.4700-08	7.1200-17
-1.6	1.0000+00	5.6500-17	3.9100-22	.0000+00	2.7500-08	5.6500-17
-1.4	1.0000+00	4.4900-17	2.4700-22	.0000+00	2.1900-08	4.4900-17
-1.2	1.0000+00	3.5700-17	1.5600-22	.0000+00	1.7400-08	3.5700-17
-1.0	1.0000+00	2.8300-17	9.8200-23	.0000+00	1.3800-08	2.8300-17
-.8	1.0000+00	2.2500-17	6.2000-23	.0000+00	1.1000-08	2.2500-17
-.6	1.0000+00	1.7900-17	3.9100-23	.0000+00	8.7000-09	1.7900-17
-.4	1.0000+00	1.4200-17	2.4700-23	.0000+00	6.9100-09	1.4200-17
-.2	1.0000+00	1.1300-17	1.5600-23	.0000+00	5.4900-09	1.1300-17
.0	1.0000+00	8.9700-18	9.8800-24	.0000+00	4.3600-09	8.9700-18
.2	1.0000+00	7.1300-18	6.2600-24	.0000+00	3.4600-09	7.1300-18
.4	1.0000+00	5.6700-18	3.9800-24	.0000+00	2.7500-09	5.6700-18
.6	1.0000+00	4.5200-18	2.5400-24	.0000+00	2.1800-09	4.5200-18
.8	1.0000+00	3.6000-18	1.6300-24	.0000+00	1.7300-09	3.6000-18
1.0	1.0000+00	2.8800-18	1.0600-24	.0000+00	1.3700-09	2.8800-18
1.2	1.0000+00	2.3000-18	6.9500-25	.0000+00	1.0800-09	2.3000-18
1.4	1.0000+00	1.8600-18	4.6900-25	.0000+00	8.5100-10	1.8600-18
1.6	1.0000+00	1.5100-18	3.3000-25	.0000+00	6.6700-10	1.5100-18
1.8	1.0000+00	1.2400-18	2.4700-25	.0000+00	5.1900-10	1.2400-18
2.0	1.0000+00	1.0400-18	2.0400-25	.0000+00	3.9900-10	1.0400-18
2.2	1.0000+00	9.0100-19	1.9700-25	.0000+00	3.0000-10	9.0100-19

T= 2200

LOG Q	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0000+00	2.9388+00	3.9388+00	4.4748+01	-6.0940+00	1.0000+00
-6.8	1.0000+00	2.9387+00	3.9387+00	4.4287+01	-5.8940+00	1.0000+00
-6.6	1.0000+00	2.9386+00	3.9386+00	4.3826+01	-5.6940+00	1.0000+00
-6.4	1.0000+00	2.9386+00	3.9386+00	4.3366+01	-5.4940+00	1.0000+00
-6.2	1.0000+00	2.9385+00	3.9385+00	4.2905+01	-5.2940+00	1.0000+00
-6.0	1.0000+00	2.9385+00	3.9385+00	4.2445+01	-5.0940+00	1.0000+00
-5.8	1.0000+00	2.9385+00	3.9385+00	4.1984+01	-4.8940+00	1.0000+00
-5.6	1.0000+00	2.9385+00	3.9385+00	4.1524+01	-4.6940+00	1.0000+00
-5.4	1.0000+00	2.9385+00	3.9385+00	4.1063+01	-4.4940+00	1.0000+00
-5.2	1.0000+00	2.9384+00	3.9384+00	4.0603+01	-4.2940+00	1.0000+00
-5.0	1.0000+00	2.9384+00	3.9384+00	4.0142+01	-4.0940+00	1.0000+00
-4.8	1.0000+00	2.9384+00	3.9384+00	3.9682+01	-3.8940+00	1.0000+00
-4.6	1.0000+00	2.9384+00	3.9384+00	3.9221+01	-3.6940+00	1.0000+00
-4.4	1.0000+00	2.9384+00	3.9384+00	3.8761+01	-3.4940+00	1.0000+00
-4.2	1.0000+00	2.9384+00	3.9384+00	3.8300+01	-3.2940+00	1.0000+00
-4.0	1.0000+00	2.9384+00	3.9384+00	3.7840+01	-3.0940+00	1.0000+00
-3.8	1.0000+00	2.9384+00	3.9384+00	3.7379+01	-2.8940+00	1.0000+00
-3.6	1.0000+00	2.9384+00	3.9384+00	3.6919+01	-2.6940+00	1.0000+00
-3.4	1.0000+00	2.9384+00	3.9384+00	3.6458+01	-2.4940+00	1.0000+00
-3.2	1.0000+00	2.9384+00	3.9384+00	3.5997+01	-2.2940+00	1.0000+00
-3.0	1.0000+00	2.9384+00	3.9384+00	3.5537+01	-2.0940+00	1.0000+00
-2.8	1.0000+00	2.9384+00	3.9384+00	3.5076+01	-1.8940+00	1.0000+00
-2.6	1.0000+00	2.9384+00	3.9384+00	3.4616+01	-1.6940+00	1.0000+00
-2.4	1.0000+00	2.9384+00	3.9384+00	3.4155+01	-1.4940+00	1.0000+00
-2.2	1.0000+00	2.9384+00	3.9384+00	3.3695+01	-1.2940+00	1.0000+00
-2.0	1.0000+00	2.9384+00	3.9384+00	3.3234+01	-1.0940+00	1.0000+00
-1.8	1.0000+00	2.9384+00	3.9384+00	3.2774+01	-8.9397-01	1.0000+00
-1.6	1.0000+00	2.9384+00	3.9384+00	3.2313+01	-6.9396-01	1.0000+00
-1.4	1.0001+00	2.9384+00	3.9385+00	3.1853+01	-4.9395-01	1.0000+00
-1.2	1.0001+00	2.9384+00	3.9385+00	3.1392+01	-2.9394-01	1.0000+00
-1.0	1.0001+00	2.9384+00	3.9385+00	3.0932+01	-9.3913-02	1.0000+00
-.8	1.0002+00	2.9384+00	3.9386+00	3.0471+01	1.0612-01	1.0000+00
-.6	1.0004+00	2.9384+00	3.9388+00	3.0010+01	3.0618-01	1.0000+00
-.4	1.0006+00	2.9384+00	3.9390+00	2.9550+01	5.0628-01	1.0000+00
-.2	1.0009+00	2.9384+00	3.9393+00	2.9089+01	7.0643-01	1.0000+00
.0	1.0015+00	2.9384+00	3.9399+00	2.8628+01	9.0667-01	1.0000+00
.2	1.0024+00	2.9384+00	3.9407+00	2.8166+01	1.1070+00	1.0000+00
.4	1.0037+00	2.9383+00	3.9421+00	2.7704+01	1.3076+00	1.0000+00
.6	1.0059+00	2.9383+00	3.9442+00	2.7242+01	1.5086+00	1.0000+00
.8	1.0094+00	2.9382+00	3.9476+00	2.6778+01	1.7101+00	1.0000+00
1.0	1.0148+00	2.9381+00	3.9530+00	2.6311+01	1.9124+00	1.0000+00
1.2	1.0235+00	2.9380+00	3.9615+00	2.5842+01	2.1161+00	1.0000+00
1.4	1.0373+00	2.9377+00	3.9750+00	2.5368+01	2.3219+00	1.0000+00
1.6	1.0591+00	2.9373+00	3.9964+00	2.4885+01	2.5310+00	1.0000+00
1.8	1.0937+00	2.9366+00	4.0303+00	2.4389+01	2.7449+00	1.0000+00
2.0	1.1484+00	2.9356+00	4.0840+00	2.3873+01	2.9661+00	1.0000+00
2.2	1.2353+00	2.9339+00	4.1692+00	2.3324+01	3.1978+00	1.0000+00

T= 2300

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000+00	1.7400-13	1.4600-15	.0000+00	4.2300-05	1.7600-13
-6.8	1.0000+00	1.3900-13	9.1900-16	.0000+00	3.3600-05	1.4000-13
-6.6	1.0000+00	1.1000-13	5.8000-16	.0000+00	2.6700-05	1.1100-13
-6.4	1.0000+00	8.7600-14	3.6600-16	.0000+00	2.1200-05	8.8000-14
-6.2	1.0000+00	6.9600-14	2.3100-16	.0000+00	1.6800-05	6.9800-14
-6.0	1.0000+00	5.5300-14	1.4600-16	.0000+00	1.3400-05	5.5500-14
-5.8	1.0000+00	4.4000-14	9.2100-17	.0000+00	1.0600-05	4.4000-14
-5.6	1.0000+00	3.4900-14	5.8100-17	.0000+00	8.4400-06	3.5000-14
-5.4	1.0000+00	2.7700-14	3.6700-17	.0000+00	6.7000-06	2.7800-14
-5.2	1.0000+00	2.2000-14	2.3200-17	.0000+00	5.3200-06	2.2100-14
-5.0	1.0000+00	1.7500-14	1.4600-17	.0000+00	4.2300-06	1.7500-14
-4.8	1.0000+00	1.3900-14	9.2200-18	.0000+00	3.3600-06	1.3900-14
-4.6	1.0000+00	1.1000-14	5.8200-18	.0000+00	2.6700-06	1.1100-14
-4.4	1.0000+00	8.7800-15	3.6700-18	.0000+00	2.1200-06	8.7800-15
-4.2	1.0000+00	6.9700-15	2.3200-18	.0000+00	1.6800-06	6.9700-15
-4.0	1.0000+00	5.5400-15	1.4600-18	.0000+00	1.3400-06	5.5400-15
-3.8	1.0000+00	4.4000-15	9.2200-19	.0000+00	1.0600-06	4.4000-15
-3.6	1.0000+00	3.4900-15	5.8200-19	.0000+00	8.4400-07	3.5000-15
-3.4	1.0000+00	2.7800-15	3.6700-19	.0000+00	6.7000-07	2.7800-15
-3.2	1.0000+00	2.2100-15	2.3200-19	.0000+00	5.3200-07	2.2100-15
-3.0	1.0000+00	1.7500-15	1.4600-19	.0000+00	4.2300-07	1.7500-15
-2.8	1.0000+00	1.3900-15	9.2200-20	.0000+00	3.3600-07	1.3900-15
-2.6	1.0000+00	1.1100-15	5.8200-20	.0000+00	2.6700-07	1.1100-15
-2.4	1.0000+00	8.7800-16	3.6700-20	.0000+00	2.1200-07	8.7800-16
-2.2	1.0000+00	6.9700-16	2.3200-20	.0000+00	1.6800-07	6.9700-16
-2.0	1.0000+00	5.5400-16	1.4600-20	.0000+00	1.3400-07	5.5400-16
-1.8	1.0000+00	4.4000-16	9.2200-21	.0000+00	1.0600-07	4.4000-16
-1.6	1.0000+00	3.5000-16	5.8200-21	.0000+00	8.4400-08	3.5000-16
-1.4	1.0000+00	2.7800-16	3.6700-21	.0000+00	6.7000-08	2.7800-16
-1.2	1.0000+00	2.2100-16	2.3200-21	.0000+00	5.3200-08	2.2100-16
-1.0	1.0000+00	1.7500-16	1.4600-21	.0000+00	4.2300-08	1.7500-16
-.8	1.0000+00	1.3900-16	9.2300-22	.0000+00	3.3600-08	1.3900-16
-.6	1.0000+00	1.1100-16	5.8300-22	.0000+00	2.6700-08	1.1100-16
-.4	1.0000+00	8.7800-17	3.6800-22	.0000+00	2.1200-08	8.7800-17
-.2	1.0000+00	6.9800-17	2.3300-22	.0000+00	1.6800-08	6.9800-17
.0	1.0000+00	5.5500-17	1.4700-22	.0000+00	1.3400-08	5.5500-17
.2	1.0000+00	4.4100-17	9.3200-23	.0000+00	1.0600-08	4.4100-17
.4	1.0000+00	3.5100-17	5.9200-23	.0000+00	8.4200-09	3.5100-17
.6	1.0000+00	2.7900-17	3.7700-23	.0000+00	6.6800-09	2.7900-17
.8	1.0000+00	2.2300-17	2.4200-23	.0000+00	5.2900-09	2.2300-17
1.0	1.0000+00	1.7800-17	1.5700-23	.0000+00	4.1900-09	1.7800-17
1.2	1.0000+00	1.4200-17	1.0300-23	.0000+00	3.3100-09	1.4200-17
1.4	1.0000+00	1.1500-17	6.9200-24	.0000+00	2.6100-09	1.1500-17
1.6	1.0000+00	9.3100-18	4.8300-24	.0000+00	2.0400-09	9.3100-18
1.8	1.0000+00	7.6600-18	3.5700-24	.0000+00	1.5900-09	7.6600-18
2.0	1.0000+00	6.4300-18	2.9100-24	.0000+00	1.2200-09	6.4300-18
2.2	1.0000+00	5.5700-18	2.7400-24	.0000+00	9.2100-10	5.5700-18



T= 2300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0000+00	2.9577+00	3.9578+00	4.4898+01	-6.0747+00	1.0000+00
-6.8	1.0000+00	2.9575+00	3.9575+00	4.4437+01	-5.8747+00	1.0000+00
-6.6	1.0000+00	2.9574+00	3.9574+00	4.3977+01	-5.6747+00	1.0000+00
-6.4	1.0000+00	2.9572+00	3.9572+00	4.3516+01	-5.4747+00	1.0000+00
-6.2	1.0000+00	2.9571+00	3.9571+00	4.3056+01	-5.2747+00	1.0000+00
-6.0	1.0000+00	2.9570+00	3.9570+00	4.2595+01	-5.0747+00	1.0000+00
-5.8	1.0000+00	2.9570+00	3.9570+00	4.2134+01	-4.8747+00	1.0000+00
-5.6	1.0000+00	2.9569+00	3.9569+00	4.1674+01	-4.6747+00	1.0000+00
-5.4	1.0000+00	2.9569+00	3.9569+00	4.1213+01	-4.4747+00	1.0000+00
-5.2	1.0000+00	2.9568+00	3.9568+00	4.0753+01	-4.2747+00	1.0000+00
-5.0	1.0000+00	2.9568+00	3.9568+00	4.0292+01	-4.0747+00	1.0000+00
-4.8	1.0000+00	2.9568+00	3.9568+00	3.9832+01	-3.8747+00	1.0000+00
-4.6	1.0000+00	2.9568+00	3.9568+00	3.9371+01	-3.6747+00	1.0000+00
-4.4	1.0000+00	2.9568+00	3.9568+00	3.8910+01	-3.4747+00	1.0000+00
-4.2	1.0000+00	2.9567+00	3.9567+00	3.8450+01	-3.2747+00	1.0000+00
-4.0	1.0000+00	2.9567+00	3.9567+00	3.7989+01	-3.0747+00	1.0000+00
-3.8	1.0000+00	2.9567+00	3.9567+00	3.7529+01	-2.8747+00	1.0000+00
-3.6	1.0000+00	2.9567+00	3.9567+00	3.7068+01	-2.6747+00	1.0000+00
-3.4	1.0000+00	2.9567+00	3.9567+00	3.6608+01	-2.4747+00	1.0000+00
-3.2	1.0000+00	2.9567+00	3.9567+00	3.6147+01	-2.2747+00	1.0000+00
-3.0	1.0000+00	2.9567+00	3.9567+00	3.5687+01	-2.0747+00	1.0000+00
-2.8	1.0000+00	2.9567+00	3.9567+00	3.5226+01	-1.8747+00	1.0000+00
-2.6	1.0000+00	2.9567+00	3.9567+00	3.4766+01	-1.6747+00	1.0000+00
-2.4	1.0000+00	2.9567+00	3.9567+00	3.4305+01	-1.4747+00	1.0000+00
-2.2	1.0000+00	2.9567+00	3.9567+00	3.3845+01	-1.2747+00	1.0000+00
-2.0	1.0000+00	2.9567+00	3.9567+00	3.3384+01	-1.0747+00	1.0000+00
-1.8	1.0000+00	2.9567+00	3.9567+00	3.2924+01	-.87466-01	1.0000+00
-1.6	1.0000+00	2.9567+00	3.9567+00	3.2463+01	-.67466-01	1.0000+00
-1.4	1.0001+00	2.9567+00	3.9568+00	3.2003+01	-.47465-01	1.0000+00
-1.2	1.0001+00	2.9567+00	3.9568+00	3.1542+01	-.27463-01	1.0000+00
-1.0	1.0001+00	2.9567+00	3.9568+00	3.1081+01	-.74608-02	1.0000+00
-.8	1.0002+00	2.9567+00	3.9569+00	3.0621+01	1.2543-01	1.0000+00
-.6	1.0004+00	2.9567+00	3.9571+00	3.0160+01	3.2549-01	1.0000+00
-.4	1.0006+00	2.9567+00	3.9573+00	2.9699+01	5.2558-01	1.0000+00
-.2	1.0009+00	2.9567+00	3.9576+00	2.9239+01	7.2573-01	1.0000+00
.0	1.0015+00	2.9567+00	3.9582+00	2.8778+01	9.2597-01	1.0000+00
.2	1.0024+00	2.9567+00	3.9590+00	2.8316+01	1.1263+00	1.0000+00
.4	1.0037+00	2.9567+00	3.9604+00	2.7854+01	1.3269+00	1.0000+00
.6	1.0059+00	2.9566+00	3.9626+00	2.7392+01	1.5279+00	1.0000+00
.8	1.0094+00	2.9566+00	3.9660+00	2.6928+01	1.7294+00	1.0000+00
1.0	1.0149+00	2.9566+00	3.9714+00	2.6461+01	1.9317+00	1.0000+00
1.2	1.0235+00	2.9565+00	3.9800+00	2.5992+01	2.1354+00	1.0000+00
1.4	1.0373+00	2.9564+00	3.9937+00	2.5518+01	2.3412+00	1.0000+00
1.6	1.0591+00	2.9562+00	4.0153+00	2.5035+01	2.5503+00	1.0000+00
1.8	1.0937+00	2.9559+00	4.0496+00	2.4540+01	2.7642+00	1.0000+00
2.0	1.1485+00	2.9554+00	4.1039+00	2.4024+01	2.9855+00	1.0000+00
2.2	1.2354+00	2.9546+00	4.1900+00	2.3476+01	3.2171+00	1.0000+00

T= 2400

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000+00	9.2300-13	1.7200-14	.0000+00	1.1800-04	9.4100-13
-6.8	1.0000+00	7.3500-13	1.0900-14	.0000+00	9.3700-05	7.4600-13
-6.6	1.0000+00	5.8500-13	6.8800-15	.0000+00	7.4500-05	5.9200-13
-6.4	1.0000+00	4.6500-13	4.3500-15	.0000+00	5.9100-05	4.8900-13
-6.2	1.0000+00	3.7000-13	2.7500-15	.0000+00	4.7000-05	3.7200-13
-6.0	1.0000+00	2.9400-13	1.7300-15	.0000+00	3.7300-05	2.9600-13
-5.8	1.0000+00	2.3400-13	1.0900-15	.0000+00	2.9600-05	2.3500-13
-5.6	1.0000+00	1.8600-13	6.9100-16	.0000+00	2.3500-05	1.8600-13
-5.4	1.0000+00	1.4800-13	4.3600-16	.0000+00	1.8700-05	1.4800-13
-5.2	1.0000+00	1.1700-13	2.7500-16	.0000+00	1.4900-05	1.1700-13
-5.0	1.0000+00	9.3100-14	1.7400-16	.0000+00	1.1800-05	9.3300-14
-4.8	1.0000+00	7.4000-14	1.1000-16	.0000+00	9.3700-06	7.4100-14
-4.6	1.0000+00	5.8800-14	6.9200-17	.0000+00	7.4500-06	5.8800-14
-4.4	1.0000+00	4.6700-14	4.3700-17	.0000+00	5.9100-06	4.6700-14
-4.2	1.0000+00	3.7100-14	2.7600-17	.0000+00	4.7000-06	3.7100-14
-4.0	1.0000+00	2.9500-14	1.7400-17	.0000+00	3.7300-06	2.9500-14
-3.8	1.0000+00	2.3400-14	1.1000-17	.0000+00	2.9600-06	2.3400-14
-3.6	1.0000+00	1.8600-14	6.9200-18	.0000+00	2.3500-06	1.8600-14
-3.4	1.0000+00	1.4800-14	4.3700-18	.0000+00	1.8700-06	1.4800-14
-3.2	1.0000+00	1.1700-14	2.7600-18	.0000+00	1.4900-06	1.1700-14
-3.0	1.0000+00	9.3200-15	1.7400-18	.0000+00	1.1800-06	9.3200-15
-2.8	1.0000+00	7.4000-15	1.1000-18	.0000+00	9.3700-07	7.4000-15
-2.6	1.0000+00	5.8800-15	6.9200-19	.0000+00	7.4500-07	5.8800-15
-2.4	1.0000+00	4.6700-15	4.3700-19	.0000+00	5.9100-07	4.6700-15
-2.2	1.0000+00	3.7100-15	2.7600-19	.0000+00	4.7000-07	3.7100-15
-2.0	1.0000+00	2.9500-15	1.7400-19	.0000+00	3.7300-07	2.9500-15
-1.8	1.0000+00	2.3400-15	1.1000-19	.0000+00	2.9600-07	2.3400-15
-1.6	1.0000+00	1.8600-15	6.9200-20	.0000+00	2.3500-07	1.8600-15
-1.4	1.0000+00	1.4800-15	4.3700-20	.0000+00	1.8700-07	1.4800-15
-1.2	1.0000+00	1.1700-15	2.7600-20	.0000+00	1.4900-07	1.1700-15
-1.0	1.0000+00	9.3200-16	1.7400-20	.0000+00	1.1800-07	9.3200-16
-.8	1.0000+00	7.4100-16	1.1000-20	.0000+00	9.3700-08	7.4100-16
-.6	1.0000+00	5.8800-16	6.9300-21	.0000+00	7.4400-08	5.8800-16
-.4	1.0000+00	4.6700-16	4.3800-21	.0000+00	5.9100-08	4.6700-16
-.2	1.0000+00	3.7100-16	2.7700-21	.0000+00	4.7000-08	3.7100-16
.0	1.0000+00	2.9500-16	1.7500-21	.0000+00	3.7300-08	2.9500-16
.2	1.0000+00	2.3500-16	1.1100-21	.0000+00	2.9600-08	2.3500-16
.4	1.0000+00	1.8700-16	7.0400-22	.0000+00	2.3500-08	1.8700-16
.6	1.0000+00	1.4900-16	4.4800-22	.0000+00	1.8600-08	1.4900-16
.8	1.0000+00	1.1800-16	2.8700-22	.0000+00	1.4800-08	1.1800-16
1.0	1.0000+00	9.4600-17	1.8600-22	.0000+00	1.1700-08	9.4600-17
1.2	1.0000+00	7.5800-17	1.2200-22	.0000+00	9.2400-09	7.5800-17
1.4	1.0000+00	6.1100-17	8.1500-23	.0000+00	7.2800-09	6.1100-17
1.6	1.0000+00	4.9600-17	5.6500-23	.0000+00	5.7100-09	4.9600-17
1.8	1.0000+00	4.0800-17	4.1500-23	.0000+00	4.4400-09	4.0800-17
2.0	1.0000+00	3.4200-17	3.3200-23	.0000+00	3.4100-09	3.4200-17
2.2	1.0000+00	2.9600-17	3.0600-23	.0000+00	2.5700-09	2.9600-17

T= 2400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0001+00	2.9771+00	3.9772+00	4.5044+01	-6.0562+00	1.0001+00
-6.8	1.0000+00	2.9765+00	3.9766+00	4.4583+01	-5.8562+00	1.0000+00
-6.6	1.0000+00	2.9761+00	3.9761+00	4.4122+01	-5.6562+00	1.0000+00
-6.4	1.0000+00	2.9757+00	3.9757+00	4.3661+01	-5.4562+00	1.0000+00
-6.2	1.0000+00	2.9754+00	3.9754+00	4.3200+01	-5.2562+00	1.0000+00
-6.0	1.0000+00	2.9752+00	3.9752+00	4.2740+01	-5.0562+00	1.0000+00
-5.8	1.0000+00	2.9750+00	3.9750+00	4.2279+01	-4.8562+00	1.0000+00
-5.6	1.0000+00	2.9749+00	3.9749+00	4.1818+01	-4.6562+00	1.0000+00
-5.4	1.0000+00	2.9747+00	3.9748+00	4.1358+01	-4.4562+00	1.0000+00
-5.2	1.0000+00	2.9747+00	3.9747+00	4.0897+01	-4.2562+00	1.0000+00
-5.0	1.0000+00	2.9746+00	3.9746+00	4.0436+01	-4.0562+00	1.0000+00
-4.8	1.0000+00	2.9745+00	3.9745+00	3.9976+01	-3.8562+00	1.0000+00
-4.6	1.0000+00	2.9745+00	3.9745+00	3.9515+01	-3.6562+00	1.0000+00
-4.4	1.0000+00	2.9744+00	3.9744+00	3.9055+01	-3.4562+00	1.0000+00
-4.2	1.0000+00	2.9744+00	3.9744+00	3.8594+01	-3.2562+00	1.0000+00
-4.0	1.0000+00	2.9744+00	3.9744+00	3.8134+01	-3.0562+00	1.0000+00
-3.8	1.0000+00	2.9744+00	3.9744+00	3.7673+01	-2.8562+00	1.0000+00
-3.6	1.0000+00	2.9744+00	3.9744+00	3.7212+01	-2.6562+00	1.0000+00
-3.4	1.0000+00	2.9743+00	3.9744+00	3.6752+01	-2.4562+00	1.0000+00
-3.2	1.0000+00	2.9743+00	3.9743+00	3.6291+01	-2.2562+00	1.0000+00
-3.0	1.0000+00	2.9743+00	3.9743+00	3.5831+01	-2.0562+00	1.0000+00
-2.8	1.0000+00	2.9743+00	3.9743+00	3.5370+01	-1.8562+00	1.0000+00
-2.6	1.0000+00	2.9743+00	3.9743+00	3.4910+01	-1.6562+00	1.0000+00
-2.4	1.0000+00	2.9743+00	3.9743+00	3.4449+01	-1.4562+00	1.0000+00
-2.2	1.0000+00	2.9743+00	3.9743+00	3.3989+01	-1.2562+00	1.0000+00
-2.0	1.0000+00	2.9743+00	3.9743+00	3.3528+01	-1.0562+00	1.0000+00
-1.8	1.0000+00	2.9743+00	3.9743+00	3.3068+01	-8.5618-01	1.0000+00
-1.6	1.0000+00	2.9743+00	3.9743+00	3.2607+01	-6.5617-01	1.0000+00
-1.4	1.0001+00	2.9743+00	3.9744+00	3.2147+01	-4.5616-01	1.0000+00
-1.2	1.0001+00	2.9743+00	3.9744+00	3.1686+01	-2.5615-01	1.0000+00
-1.0	1.0001+00	2.9743+00	3.9745+00	3.1226+01	-5.6125-02	1.0000+00
-.8	1.0002+00	2.9743+00	3.9745+00	3.0765+01	1.4391-01	1.0000+00
-.6	1.0004+00	2.9743+00	3.9747+00	3.0304+01	3.4397-01	1.0000+00
-.4	1.0006+00	2.9743+00	3.9749+00	2.9844+01	5.4407-01	1.0000+00
-.2	1.0009+00	2.9743+00	3.9752+00	2.9383+01	7.4422-01	1.0000+00
.0	1.0015+00	2.9743+00	3.9758+00	2.8922+01	9.4446-01	1.0000+00
.2	1.0024+00	2.9743+00	3.9767+00	2.8460+01	1.1448+00	1.0000+00
.4	1.0037+00	2.9743+00	3.9780+00	2.7998+01	1.3454+00	1.0000+00
.6	1.0059+00	2.9743+00	3.9802+00	2.7536+01	1.5464+00	1.0000+00
.8	1.0094+00	2.9743+00	3.9837+00	2.7072+01	1.7479+00	1.0000+00
1.0	1.0149+00	2.9743+00	3.9892+00	2.6606+01	1.9502+00	1.0000+00
1.2	1.0235+00	2.9743+00	3.9978+00	2.6136+01	2.1539+00	1.0000+00
1.4	1.0373+00	2.9743+00	4.0116+00	2.5662+01	2.3597+00	1.0000+00
1.6	1.0591+00	2.9743+00	4.0334+00	2.5180+01	2.5688+00	1.0000+00
1.8	1.0937+00	2.9743+00	4.0680+00	2.4685+01	2.7827+00	1.0000+00
2.0	1.1486+00	2.9743+00	4.1229+00	2.4169+01	3.0040+00	1.0000+00
2.2	1.2354+00	2.9743+00	4.2097+00	2.3622+01	3.2356+00	1.0000+00

T= 2500

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000+00	4.2600-12	1.6700-13	.0000+00	3.0300-04	4.4300-12
-6.8	1.0000+00	3.4000-12	1.0500-13	.0000+00	2.4100-04	3.5100-12
-6.6	1.0000+00	2.7100-12	6.6800-14	.0000+00	1.9100-04	2.7800-12
-6.4	1.0000+00	2.1600-12	4.2200-14	.0000+00	1.5200-04	2.2000-12
-6.2	1.0000+00	1.7200-12	2.6700-14	.0000+00	1.2100-04	1.7400-12
-6.0	1.0000+00	1.3700-12	1.6900-14	.0000+00	9.6000-05	1.3800-12
-5.8	1.0000+00	1.0900-12	1.0700-14	.0000+00	7.6200-05	1.1000-12
-5.6	1.0000+00	8.6400-13	6.7300-15	.0000+00	6.0600-05	8.7100-13
-5.4	1.0000+00	6.8700-13	4.2500-15	.0000+00	4.8100-05	6.9100-13
-5.2	1.0000+00	5.4600-13	2.6800-15	.0000+00	3.8200-05	5.4900-13
-5.0	1.0000+00	4.3400-13	1.6900-15	.0000+00	3.0400-05	4.3600-13
-4.8	1.0000+00	3.4500-13	1.0700-15	.0000+00	2.4100-05	3.4600-13
-4.6	1.0000+00	2.7400-13	6.7500-16	.0000+00	1.9200-05	2.7500-13
-4.4	1.0000+00	2.1800-13	4.2600-16	.0000+00	1.5200-05	2.1800-13
-4.2	1.0000+00	1.7300-13	2.6900-16	.0000+00	1.2100-05	1.7300-13
-4.0	1.0000+00	1.3700-13	1.7000-16	.0000+00	9.6000-06	1.3800-13
-3.8	1.0000+00	1.0900-13	1.0700-16	.0000+00	7.6200-06	1.0900-13
-3.6	1.0000+00	8.6700-14	6.7600-17	.0000+00	6.0600-06	8.6800-14
-3.4	1.0000+00	6.8900-14	4.2600-17	.0000+00	4.8100-06	6.8900-14
-3.2	1.0000+00	5.4700-14	2.6900-17	.0000+00	3.8200-06	5.4700-14
-3.0	1.0000+00	4.3500-14	1.7000-17	.0000+00	3.0400-06	4.3500-14
-2.8	1.0000+00	3.4500-14	1.0700-17	.0000+00	2.4100-06	3.4500-14
-2.6	1.0000+00	2.7400-14	6.7600-18	.0000+00	1.9200-06	2.7400-14
-2.4	1.0000+00	2.1800-14	4.2600-18	.0000+00	1.5200-06	2.1800-14
-2.2	1.0000+00	1.7300-14	2.6900-18	.0000+00	1.2100-06	1.7300-14
-2.0	1.0000+00	1.3700-14	1.7000-18	.0000+00	9.6000-07	1.3700-14
-1.8	1.0000+00	1.0900-14	1.0700-18	.0000+00	7.6200-07	1.0900-14
-1.6	1.0000+00	8.6700-15	6.7600-19	.0000+00	6.0600-07	8.6800-15
-1.4	1.0000+00	6.8900-15	4.2600-19	.0000+00	4.8100-07	6.8900-15
-1.2	1.0000+00	5.4700-15	2.6900-19	.0000+00	3.8200-07	5.4700-15
-1.0	1.0000+00	4.3500-15	1.7000-19	.0000+00	3.0400-07	4.3500-15
-.8	1.0000+00	3.4500-15	1.0700-19	.0000+00	2.4100-07	3.4500-15
-.6	1.0000+00	2.7400-15	6.7700-20	.0000+00	1.9100-07	2.7400-15
-.4	1.0000+00	2.1800-15	4.2700-20	.0000+00	1.5200-07	2.1800-15
-.2	1.0000+00	1.7300-15	2.7000-20	.0000+00	1.2100-07	1.7300-15
.0	1.0000+00	1.3800-15	1.7100-20	.0000+00	9.5900-08	1.3800-15
.2	1.0000+00	1.0900-15	1.0800-20	.0000+00	7.6100-08	1.0900-15
.4	1.0000+00	8.7100-16	6.8600-21	.0000+00	6.0400-08	8.7100-16
.6	1.0000+00	6.9300-16	4.3700-21	.0000+00	4.7900-08	6.9300-16
.8	1.0000+00	5.5300-16	2.8000-21	.0000+00	3.8000-08	5.5300-16
1.0	1.0000+00	4.4100-16	1.8000-21	.0000+00	3.0100-08	4.4100-16
1.2	1.0000+00	3.5400-16	1.1800-21	.0000+00	2.3800-08	3.5400-16
1.4	1.0000+00	2.8500-16	7.8800-22	.0000+00	1.8700-08	2.8500-16
1.6	1.0000+00	2.3100-16	5.4400-22	.0000+00	1.4700-08	2.3100-16
1.8	1.0000+00	1.9000-16	3.9600-22	.0000+00	1.1400-08	1.9000-16
2.0	1.0000+00	1.6000-16	3.1300-22	.0000+00	8.7800-09	1.6000-16
2.2	1.0000+00	1.3800-16	2.8200-22	.0000+00	6.6200-09	1.3800-16

T= 2500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0002+00	2.9988+00	3.9989+00	4.5187+01	-6.0384+00	1.0002+00
-6.8	1.0001+00	2.9974+00	3.9975+00	4.4725+01	-5.8384+00	1.0001+00
-6.6	1.0001+00	2.9962+00	3.9963+00	4.4263+01	-5.6384+00	1.0001+00
-6.4	1.0001+00	2.9953+00	3.9954+00	4.3802+01	-5.4384+00	1.0001+00
-6.2	1.0001+00	2.9946+00	3.9947+00	4.3341+01	-5.2384+00	1.0001+00
-6.0	1.0000+00	2.9941+00	3.9941+00	4.2880+01	-5.0384+00	1.0000+00
-5.8	1.0000+00	2.9936+00	3.9937+00	4.2419+01	-4.8384+00	1.0000+00
-5.6	1.0000+00	2.9933+00	3.9933+00	4.1958+01	-4.6384+00	1.0000+00
-5.4	1.0000+00	2.9930+00	3.9930+00	4.1497+01	-4.4384+00	1.0000+00
-5.2	1.0000+00	2.9928+00	3.9928+00	4.1036+01	-4.2385+00	1.0000+00
-5.0	1.0000+00	2.9926+00	3.9926+00	4.0576+01	-4.0385+00	1.0000+00
-4.8	1.0000+00	2.9924+00	3.9925+00	4.0115+01	-3.8385+00	1.0000+00
-4.6	1.0000+00	2.9923+00	3.9923+00	3.9654+01	-3.6385+00	1.0000+00
-4.4	1.0000+00	2.9922+00	3.9923+00	3.9194+01	-3.4385+00	1.0000+00
-4.2	1.0000+00	2.9922+00	3.9922+00	3.8733+01	-3.2385+00	1.0000+00
-4.0	1.0000+00	2.9921+00	3.9921+00	3.8272+01	-3.0385+00	1.0000+00
-3.8	1.0000+00	2.9921+00	3.9921+00	3.7812+01	-2.8385+00	1.0000+00
-3.6	1.0000+00	2.9920+00	3.9920+00	3.7351+01	-2.6385+00	1.0000+00
-3.4	1.0000+00	2.9920+00	3.9920+00	3.6891+01	-2.4385+00	1.0000+00
-3.2	1.0000+00	2.9920+00	3.9920+00	3.6430+01	-2.2385+00	1.0000+00
-3.0	1.0000+00	2.9920+00	3.9920+00	3.5970+01	-2.0385+00	1.0000+00
-2.8	1.0000+00	2.9920+00	3.9920+00	3.5509+01	-1.8385+00	1.0000+00
-2.6	1.0000+00	2.9919+00	3.9919+00	3.5049+01	-1.6385+00	1.0000+00
-2.4	1.0000+00	2.9919+00	3.9919+00	3.4588+01	-1.4385+00	1.0000+00
-2.2	1.0000+00	2.9919+00	3.9919+00	3.4128+01	-1.2385+00	1.0000+00
-2.0	1.0000+00	2.9919+00	3.9919+00	3.3667+01	-1.0385+00	1.0000+00
-1.8	1.0000+00	2.9919+00	3.9919+00	3.3207+01	-8.3845-01	1.0000+00
-1.6	1.0000+00	2.9919+00	3.9920+00	3.2746+01	-6.3844-01	1.0000+00
-1.4	1.0001+00	2.9919+00	3.9920+00	3.2285+01	-4.3843-01	1.0000+00
-1.2	1.0001+00	2.9919+00	3.9920+00	3.1825+01	-2.3842-01	1.0000+00
-1.0	1.0001+00	2.9919+00	3.9921+00	3.1364+01	-3.8396-02	1.0000+00
-.8	1.0002+00	2.9919+00	3.9921+00	3.0904+01	1.6164-01	1.0000+00
-.6	1.0004+00	2.9919+00	3.9923+00	3.0443+01	3.6170-01	1.0000+00
-.4	1.0006+00	2.9919+00	3.9925+00	2.9982+01	5.6180-01	1.0000+00
-.2	1.0009+00	2.9919+00	3.9928+00	2.9521+01	7.6195-01	1.0000+00
.0	1.0015+00	2.9919+00	3.9934+00	2.9060+01	9.6218-01	1.0000+00
.2	1.0024+00	2.9919+00	3.9943+00	2.8599+01	1.1626+00	1.0000+00
.4	1.0037+00	2.9919+00	3.9957+00	2.8137+01	1.3632+00	1.0000+00
.6	1.0059+00	2.9920+00	3.9979+00	2.7674+01	1.5641+00	1.0000+00
.8	1.0094+00	2.9920+00	4.0014+00	2.7211+01	1.7656+00	1.0000+00
1.0	1.0149+00	2.9920+00	4.0069+00	2.6745+01	1.9679+00	1.0000+00
1.2	1.0235+00	2.9921+00	4.0156+00	2.6275+01	2.1716+00	1.0000+00
1.4	1.0373+00	2.9922+00	4.0295+00	2.5801+01	2.3774+00	1.0000+00
1.6	1.0591+00	2.9924+00	4.0515+00	2.5319+01	2.5865+00	1.0000+00
1.8	1.0937+00	2.9927+00	4.0864+00	2.4824+01	2.8004+00	1.0000+00
2.0	1.1485+00	2.9931+00	4.1417+00	2.4309+01	3.0217+00	1.0000+00
2.2	1.2354+00	2.9938+00	4.2293+00	2.3763+01	3.2533+00	1.0000+00

T= 2600

LOG D	N2	N2+	N+	N++	N	E
-7.0	9.9900-01	1.7400-11	1.3400-12	.0000+00	7.2500-04	1.8700-11
-6.8	9.9900-01	1.3900-11	8.5200-13	.0000+00	5.7600-04	1.4700-11
-6.6	1.0000+00	1.1100-11	5.4100-13	.0000+00	4.5800-04	1.1600-11
-6.4	1.0000+00	8.8600-12	3.4300-13	.0000+00	3.6300-04	9.2100-12
-6.2	1.0000+00	7.0700-12	2.1700-13	.0000+00	2.8900-04	7.2900-12
-6.0	1.0000+00	5.6300-12	1.3700-13	.0000+00	2.2900-04	5.7700-12
-5.8	1.0000+00	4.4900-12	8.6900-14	.0000+00	1.8200-04	4.5700-12
-5.6	1.0000+00	3.5700-12	5.5000-14	.0000+00	1.4500-04	3.6200-12
-5.4	1.0000+00	2.8400-12	3.4700-14	.0000+00	1.1500-04	2.8700-12
-5.2	1.0000+00	2.2600-12	2.1900-14	.0000+00	9.1300-05	2.2800-12
-5.0	1.0000+00	1.8000-12	1.3900-14	.0000+00	7.2500-05	1.8100-12
-4.8	1.0000+00	1.4300-12	8.7500-15	.0000+00	5.7600-05	1.4400-12
-4.6	1.0000+00	1.1300-12	5.5300-15	.0000+00	4.5800-05	1.1400-12
-4.4	1.0000+00	9.0200-13	3.4900-15	.0000+00	3.6400-05	9.0500-13
-4.2	1.0000+00	7.1700-13	2.2000-15	.0000+00	2.8900-05	7.1900-13
-4.0	1.0000+00	5.6900-13	1.3900-15	.0000+00	2.2900-05	5.7100-13
-3.8	1.0000+00	4.5700-13	8.7700-16	.0000+00	1.8200-05	4.5300-13
-3.6	1.0000+00	3.5900-13	5.5400-16	.0000+00	1.4500-05	3.6000-13
-3.4	1.0000+00	2.8600-13	3.4900-16	.0000+00	1.1500-05	2.8600-13
-3.2	1.0000+00	2.2700-13	2.2000-16	.0000+00	9.1300-06	2.2700-13
-3.0	1.0000+00	1.8000-13	1.3900-16	.0000+00	7.2500-06	1.8000-13
-2.8	1.0000+00	1.4300-13	8.7800-17	.0000+00	5.7600-06	1.4300-13
-2.6	1.0000+00	1.1400-13	5.5400-17	.0000+00	4.5800-06	1.1400-13
-2.4	1.0000+00	9.0300-14	3.4900-17	.0000+00	3.6400-06	9.0400-14
-2.2	1.0000+00	7.1800-14	2.2100-17	.0000+00	2.8900-06	7.1800-14
-2.0	1.0000+00	5.7000-14	1.3900-17	.0000+00	2.2900-06	5.7000-14
-1.8	1.0000+00	4.5300-14	8.7800-18	.0000+00	1.8200-06	4.5300-14
-1.6	1.0000+00	3.6000-14	5.5400-18	.0000+00	1.4500-06	3.6000-14
-1.4	1.0000+00	2.8600-14	3.5000-18	.0000+00	1.1500-06	2.8600-14
-1.2	1.0000+00	2.2700-14	2.2100-18	.0000+00	9.1300-07	2.2700-14
-1.0	1.0000+00	1.8000-14	1.3900-18	.0000+00	7.2500-07	1.8000-14
-.8	1.0000+00	1.4300-14	8.7900-19	.0000+00	5.7600-07	1.4300-14
-.6	1.0000+00	1.1400-14	5.5500-19	.0000+00	4.5800-07	1.1400-14
-.4	1.0000+00	9.0400-15	3.5000-19	.0000+00	3.6300-07	9.0400-15
-.2	1.0000+00	7.1800-15	2.2100-19	.0000+00	2.8900-07	7.1800-15
.0	1.0000+00	5.7100-15	1.4000-19	.0000+00	2.2900-07	5.7100-15
.2	1.0000+00	4.5400-15	8.8600-20	.0000+00	1.8200-07	4.5400-15
.4	1.0000+00	3.6100-15	5.6200-20	.0000+00	1.4400-07	3.6100-15
.6	1.0000+00	2.8700-15	3.5800-20	.0000+00	1.1500-07	2.8700-15
.8	1.0000+00	2.2900-15	2.2900-20	.0000+00	9.0800-08	2.2900-15
1.0	1.0000+00	1.8300-15	1.4700-20	.0000+00	7.1900-08	1.8300-15
1.2	1.0000+00	1.4700-15	9.6200-21	.0000+00	5.6800-08	1.4700-15
1.4	1.0000+00	1.1800-15	6.4100-21	.0000+00	4.4800-08	1.1800-15
1.6	1.0000+00	9.5900-16	4.4000-21	.0000+00	3.5100-08	9.5900-16
1.8	1.0000+00	7.8800-16	3.1800-21	.0000+00	2.7300-08	7.8800-16
2.0	1.0000+00	6.6100-16	2.4800-21	.0000+00	2.1000-08	6.6100-16
2.2	1.0000+00	5.7300-16	2.2000-21	.0000+00	1.5800-08	5.7300-16

T= 2600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0004+00	3.0236+00	4.0240+00	4.5330+01	-6.0213+00	1.0004+00
-6.8	1.0003+00	3.0203+00	4.0206+00	4.4866+01	-5.8213+00	1.0003+00
-6.6	1.0002+00	3.0178+00	4.0180+00	4.4403+01	-5.6213+00	1.0002+00
-6.4	1.0002+00	3.0157+00	4.0159+00	4.3940+01	-5.4213+00	1.0002+00
-6.2	1.0001+00	3.0141+00	4.0142+00	4.3478+01	-5.2214+00	1.0001+00
-6.0	1.0001+00	3.0128+00	4.0129+00	4.3016+01	-5.0214+00	1.0001+00
-5.8	1.0001+00	3.0118+00	4.0119+00	4.2555+01	-4.8214+00	1.0001+00
-5.6	1.0001+00	3.0110+00	4.0110+00	4.2093+01	-4.6214+00	1.0001+00
-5.4	1.0001+00	3.0103+00	4.0104+00	4.1632+01	-4.4214+00	1.0001+00
-5.2	1.0000+00	3.0098+00	4.0098+00	4.1171+01	-4.2214+00	1.0000+00
-5.0	1.0000+00	3.0094+00	4.0094+00	4.0710+01	-4.0214+00	1.0000+00
-4.8	1.0000+00	3.0091+00	4.0091+00	4.0249+01	-3.8214+00	1.0000+00
-4.6	1.0000+00	3.0088+00	4.0088+00	3.9788+01	-3.6214+00	1.0000+00
-4.4	1.0000+00	3.0086+00	4.0086+00	3.9328+01	-3.4214+00	1.0000+00
-4.2	1.0000+00	3.0084+00	4.0084+00	3.8867+01	-3.2214+00	1.0000+00
-4.0	1.0000+00	3.0083+00	4.0083+00	3.8406+01	-3.0214+00	1.0000+00
-3.8	1.0000+00	3.0082+00	4.0082+00	3.7946+01	-2.8214+00	1.0000+00
-3.6	1.0000+00	3.0081+00	4.0081+00	3.7485+01	-2.6214+00	1.0000+00
-3.4	1.0000+00	3.0081+00	4.0081+00	3.7025+01	-2.4214+00	1.0000+00
-3.2	1.0000+00	3.0080+00	4.0080+00	3.6564+01	-2.2214+00	1.0000+00
-3.0	1.0000+00	3.0080+00	4.0080+00	3.6103+01	-2.0214+00	1.0000+00
-2.8	1.0000+00	3.0079+00	4.0079+00	3.5643+01	-1.8214+00	1.0000+00
-2.6	1.0000+00	3.0079+00	4.0079+00	3.5182+01	-1.6214+00	1.0000+00
-2.4	1.0000+00	3.0079+00	4.0079+00	3.4722+01	-1.4214+00	1.0000+00
-2.2	1.0000+00	3.0079+00	4.0079+00	3.4261+01	-1.2214+00	1.0000+00
-2.0	1.0000+00	3.0079+00	4.0079+00	3.3801+01	-1.0214+00	1.0000+00
-1.8	1.0000+00	3.0078+00	4.0079+00	3.3340+01	-8.2142-01	1.0000+00
-1.6	1.0000+00	3.0078+00	4.0079+00	3.2880+01	-6.2141-01	1.0000+00
-1.4	1.0001+00	3.0078+00	4.0079+00	3.2419+01	-4.2140-01	1.0000+00
-1.2	1.0001+00	3.0078+00	4.0079+00	3.1959+01	-2.2139-01	1.0000+00
-1.0	1.0001+00	3.0078+00	4.0080+00	3.1498+01	-2.1362-02	1.0000+00
-.8	1.0002+00	3.0078+00	4.0081+00	3.1037+01	1.7868-01	1.0000+00
-.6	1.0004+00	3.0078+00	4.0082+00	3.0577+01	3.7874-01	1.0000+00
-.4	1.0006+00	3.0078+00	4.0084+00	3.0116+01	5.7883-01	1.0000+00
-.2	1.0009+00	3.0078+00	4.0088+00	2.9655+01	7.7898-01	1.0000+00
.0	1.0015+00	3.0078+00	4.0093+00	2.9194+01	9.7922-01	1.0000+00
.2	1.0024+00	3.0078+00	4.0102+00	2.8733+01	1.1796+00	1.0000+00
.4	1.0037+00	3.0079+00	4.0116+00	2.8271+01	1.3802+00	1.0000+00
.6	1.0059+00	3.0079+00	4.0138+00	2.7808+01	1.5811+00	1.0000+00
.8	1.0094+00	3.0080+00	4.0173+00	2.7344+01	1.7826+00	1.0000+00
1.0	1.0148+00	3.0080+00	4.0229+00	2.6878+01	1.9850+00	1.0000+00
1.2	1.0235+00	3.0082+00	4.0317+00	2.6409+01	2.1887+00	1.0000+00
1.4	1.0373+00	3.0084+00	4.0457+00	2.5935+01	2.3945+00	1.0000+00
1.6	1.0591+00	3.0087+00	4.0678+00	2.5453+01	2.6035+00	1.0000+00
1.8	1.0937+00	3.0093+00	4.1030+00	2.4959+01	2.8175+00	1.0000+00
2.0	1.1485+00	3.0102+00	4.1586+00	2.4444+01	3.0387+00	1.0000+00
2.2	1.2353+00	3.0115+00	4.2468+00	2.3898+01	3.2703+00	1.0000+00

T= 2700

LOG D	N2	N2+	N+	N++	N	E
-7.0	9.9800-01	6.2900-11	9.1100-12	.0000+00	1.6200-03	7.2000-11
-6.8	9.9900-01	5.0700-11	5.8300-12	.0000+00	1.2900-03	5.6500-11
-6.6	9.9900-01	4.0700-11	3.7200-12	.0000+00	1.0200-03	4.4400-11
-6.4	9.9900-01	3.2600-11	2.3700-12	.0000+00	8.1400-04	3.5000-11
-6.2	9.9900-01	2.6100-11	1.5000-12	.0000+00	6.4600-04	2.7600-11
-6.0	9.9900-01	2.0800-11	9.5400-13	.0000+00	5.1300-04	2.1800-11
-5.8	1.0000+00	1.6600-11	6.0500-13	.0000+00	4.0800-04	1.7200-11
-5.6	1.0000+00	1.3300-11	3.8300-13	.0000+00	3.2400-04	1.3600-11
-5.4	1.0000+00	1.0600-11	2.4200-13	.0000+00	2.5700-04	1.0800-11
-5.2	1.0000+00	8.4100-12	1.5300-13	.0000+00	2.0400-04	8.5600-12
-5.0	1.0000+00	6.6900-12	9.6900-14	.0000+00	1.6200-04	6.7900-12
-4.8	1.0000+00	5.3200-12	6.1200-14	.0000+00	1.2900-04	5.3800-12
-4.6	1.0000+00	4.2300-12	3.8700-14	.0000+00	1.0200-04	4.2700-12
-4.4	1.0000+00	3.3700-12	2.4400-14	.0000+00	8.1400-05	3.3900-12
-4.2	1.0000+00	2.6800-12	1.5400-14	.0000+00	6.4700-05	2.6900-12
-4.0	1.0000+00	2.1300-12	9.7300-15	.0000+00	5.1400-05	2.1400-12
-3.8	1.0000+00	1.6900-12	6.1500-15	.0000+00	4.0800-05	1.7000-12
-3.6	1.0000+00	1.3400-12	3.8800-15	.0000+00	3.2400-05	1.3500-12
-3.4	1.0000+00	1.0700-12	2.4500-15	.0000+00	2.5700-05	1.0700-12
-3.2	1.0000+00	8.4800-13	1.5500-15	.0000+00	2.0400-05	8.4900-13
-3.0	1.0000+00	6.7400-13	9.7500-16	.0000+00	1.6200-05	6.7500-13
-2.8	1.0000+00	5.3500-13	6.1500-16	.0000+00	1.2900-05	5.3600-13
-2.6	1.0000+00	4.2500-13	3.8800-16	.0000+00	1.0200-05	4.2500-13
-2.4	1.0000+00	3.3800-13	2.4500-16	.0000+00	8.1400-06	3.3800-13
-2.2	1.0000+00	2.6800-13	1.5500-16	.0000+00	6.4700-06	2.6800-13
-2.0	1.0000+00	2.1300-13	9.7600-17	.0000+00	5.1400-06	2.1300-13
-1.8	1.0000+00	1.6900-13	6.1600-17	.0000+00	4.0800-06	1.6900-13
-1.6	1.0000+00	1.3400-13	3.8800-17	.0000+00	3.2400-06	1.3500-13
-1.4	1.0000+00	1.0700-13	2.4500-17	.0000+00	2.5700-06	1.0700-13
-1.2	1.0000+00	8.4900-14	1.5500-17	.0000+00	2.0400-06	8.4900-14
-1.0	1.0000+00	6.7400-14	9.7600-18	.0000+00	1.6200-06	6.7400-14
-.8	1.0000+00	5.3500-14	6.1600-18	.0000+00	1.2900-06	5.3600-14
-.6	1.0000+00	4.2500-14	3.8900-18	.0000+00	1.0200-06	4.2500-14
-.4	1.0000+00	3.3800-14	2.4600-18	.0000+00	8.1400-07	3.3800-14
-.2	1.0000+00	2.6900-14	1.5500-18	.0000+00	6.4600-07	2.6900-14
.0	1.0000+00	2.1300-14	9.8100-19	.0000+00	5.1300-07	2.1300-14
.2	1.0000+00	1.7000-14	6.2100-19	.0000+00	4.0700-07	1.7000-14
.4	1.0000+00	1.3500-14	3.9400-19	.0000+00	3.2300-07	1.3500-14
.6	1.0000+00	1.0700-14	2.5000-19	.0000+00	2.5700-07	1.0700-14
.8	1.0000+00	8.5700-15	1.6000-19	.0000+00	2.0300-07	8.5700-15
1.0	1.0000+00	6.8400-15	1.0300-19	.0000+00	1.6100-07	6.8400-15
1.2	1.0000+00	5.4800-15	6.7200-20	.0000+00	1.2700-07	5.4800-15
1.4	1.0000+00	4.4100-15	4.4600-20	.0000+00	1.0000-07	4.4100-15
1.6	1.0000+00	3.5800-15	3.0500-20	.0000+00	7.8600-08	3.5800-15
1.8	1.0000+00	2.9500-15	2.1900-20	.0000+00	6.1200-08	2.9500-15
2.0	1.0000+00	2.4700-15	1.6900-20	.0000+00	4.7000-08	2.4700-15
2.2	1.0000+00	2.1400-15	1.4700-20	.0000+00	3.5500-08	2.1400-15



T= 2700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0008+00	3.0567+00	4.0575+00	4.5478+01	-6.0047+00	1.0008+00
-6.8	1.0006+00	3.0497+00	4.0504+00	4.5011+01	-5.8048+00	1.0006+00
-6.6	1.0005+00	3.0442+00	4.0447+00	4.4544+01	-5.6048+00	1.0005+00
-6.4	1.0004+00	3.0398+00	4.0402+00	4.4079+01	-5.4049+00	1.0004+00
-6.2	1.0003+00	3.0363+00	4.0366+00	4.3615+01	-5.2049+00	1.0003+00
-6.0	1.0003+00	3.0335+00	4.0337+00	4.3152+01	-5.0049+00	1.0003+00
-5.8	1.0002+00	3.0313+00	4.0315+00	4.2689+01	-4.8049+00	1.0002+00
-5.6	1.0002+00	3.0295+00	4.0297+00	4.2226+01	-4.6050+00	1.0002+00
-5.4	1.0001+00	3.0281+00	4.0282+00	4.1764+01	-4.4050+00	1.0001+00
-5.2	1.0001+00	3.0270+00	4.0271+00	4.1303+01	-4.2050+00	1.0001+00
-5.0	1.0001+00	3.0261+00	4.0262+00	4.0841+01	-4.0050+00	1.0001+00
-4.8	1.0001+00	3.0254+00	4.0255+00	4.0380+01	-3.8050+00	1.0001+00
-4.6	1.0001+00	3.0248+00	4.0249+00	3.9919+01	-3.6050+00	1.0001+00
-4.4	1.0000+00	3.0244+00	4.0244+00	3.9458+01	-3.4050+00	1.0000+00
-4.2	1.0000+00	3.0241+00	4.0241+00	3.8997+01	-3.2050+00	1.0000+00
-4.0	1.0000+00	3.0238+00	4.0238+00	3.8536+01	-3.0050+00	1.0000+00
-3.8	1.0000+00	3.0236+00	4.0236+00	3.8075+01	-2.8050+00	1.0000+00
-3.6	1.0000+00	3.0234+00	4.0234+00	3.7615+01	-2.6050+00	1.0000+00
-3.4	1.0000+00	3.0232+00	4.0233+00	3.7154+01	-2.4050+00	1.0000+00
-3.2	1.0000+00	3.0231+00	4.0231+00	3.6693+01	-2.2050+00	1.0000+00
-3.0	1.0000+00	3.0230+00	4.0230+00	3.6233+01	-2.0050+00	1.0000+00
-2.8	1.0000+00	3.0230+00	4.0230+00	3.5772+01	-1.8050+00	1.0000+00
-2.6	1.0000+00	3.0229+00	4.0229+00	3.5312+01	-1.6050+00	1.0000+00
-2.4	1.0000+00	3.0229+00	4.0229+00	3.4851+01	-1.4050+00	1.0000+00
-2.2	1.0000+00	3.0228+00	4.0228+00	3.4391+01	-1.2050+00	1.0000+00
-2.0	1.0000+00	3.0228+00	4.0228+00	3.3930+01	-1.0050+00	1.0000+00
-1.8	1.0000+00	3.0228+00	4.0228+00	3.3469+01	-8.0503-01	1.0000+00
-1.6	1.0000+00	3.0228+00	4.0228+00	3.3009+01	-6.0502-01	1.0000+00
-1.4	1.0001+00	3.0228+00	4.0228+00	3.2548+01	-4.0501-01	1.0000+00
-1.2	1.0001+00	3.0227+00	4.0228+00	3.2088+01	-2.0500-01	1.0000+00
-1.0	1.0001+00	3.0227+00	4.0229+00	3.1627+01	-4.9717-03	1.0000+00
-.8	1.0002+00	3.0227+00	4.0230+00	3.1167+01	-1.9507-01	1.0000+00
-.6	1.0004+00	3.0227+00	4.0231+00	3.0706+01	-3.9513-01	1.0000+00
-.4	1.0006+00	3.0227+00	4.0233+00	3.0245+01	-5.9522-01	1.0000+00
-.2	1.0009+00	3.0227+00	4.0237+00	2.9784+01	-7.9537-01	1.0000+00
.0	1.0015+00	3.0227+00	4.0242+00	2.9323+01	-9.9561-01	1.0000+00
.2	1.0024+00	3.0228+00	4.0251+00	2.8862+01	-1.1960+00	1.0000+00
.4	1.0037+00	3.0228+00	4.0265+00	2.8400+01	-1.3966+00	1.0000+00
.6	1.0059+00	3.0228+00	4.0287+00	2.7937+01	-1.5975+00	1.0000+00
.8	1.0094+00	3.0229+00	4.0323+00	2.7474+01	-1.7990+00	1.0000+00
1.0	1.0148+00	3.0230+00	4.0379+00	2.7008+01	-2.0014+00	1.0000+00
1.2	1.0235+00	3.0232+00	4.0468+00	2.6539+01	-2.2051+00	1.0000+00
1.4	1.0373+00	3.0236+00	4.0608+00	2.6065+01	-2.4109+00	1.0000+00
1.6	1.0591+00	3.0241+00	4.0831+00	2.5583+01	-2.6199+00	1.0000+00
1.8	1.0936+00	3.0248+00	4.1184+00	2.5089+01	-2.8338+00	1.0000+00
2.0	1.1484+00	3.0261+00	4.1744+00	2.4575+01	-3.0550+00	1.0000+00
2.2	1.2351+00	3.0281+00	4.2632+00	2.4029+01	-3.2867+00	1.0000+00

T= 2800

LOG D	N2	N2+	N+	N++	N	$\epsilon$
-7.0	9.9700-01	2.0400-10	5.3000-11	.0000+00	3.4300-03	2.5700-10
-6.8	9.9700-01	1.6600-10	3.4200-11	.0000+00	2.7200-03	2.0000-10
-6.6	9.9800-01	1.3400-10	2.2000-11	.0000+00	2.1600-03	1.5600-10
-6.4	9.9800-01	1.0800-10	1.4100-11	.0000+00	1.7200-03	1.2200-10
-6.2	9.9900-01	8.6900-11	8.9800-12	.0000+00	1.3700-03	9.5900-11
-6.0	9.9900-01	6.9700-11	5.7300-12	.0000+00	1.0900-03	7.5500-11
-5.8	9.9900-01	5.5800-11	3.6400-12	.0000+00	8.6200-04	5.9500-11
-5.6	9.9900-01	4.4600-11	2.3100-12	.0000+00	6.8500-04	4.7000-11
-5.4	9.9900-01	3.5600-11	1.4700-12	.0000+00	5.4400-04	3.7100-11
-5.2	1.0000+00	2.8400-11	9.2900-13	.0000+00	4.3200-04	2.9400-11
-5.0	1.0000+00	2.2700-11	5.8800-13	.0000+00	3.4300-04	2.3300-11
-4.8	1.0000+00	1.8000-11	3.7200-13	.0000+00	2.7300-04	1.8400-11
-4.6	1.0000+00	1.4400-11	2.3500-13	.0000+00	2.1700-04	1.4600-11
-4.4	1.0000+00	1.1400-11	1.4900-13	.0000+00	1.7200-04	1.1600-11
-4.2	1.0000+00	9.0900-12	9.4000-14	.0000+00	1.3700-04	9.1900-12
-4.0	1.0000+00	7.2300-12	5.9300-14	.0000+00	1.0900-04	7.2900-12
-3.8	1.0000+00	5.7500-12	3.7500-14	.0000+00	8.6300-05	5.7900-12
-3.6	1.0000+00	4.5700-12	2.3700-14	.0000+00	6.8500-05	4.5900-12
-3.4	1.0000+00	3.6300-12	1.4900-14	.0000+00	5.4400-05	3.6500-12
-3.2	1.0000+00	2.8900-12	9.4300-15	.0000+00	4.3200-05	2.9000-12
-3.0	1.0000+00	2.2900-12	5.9500-15	.0000+00	3.4300-05	2.3000-12
-2.8	1.0000+00	1.8200-12	3.7600-15	.0000+00	2.7300-05	1.8300-12
-2.6	1.0000+00	1.4500-12	2.3700-15	.0000+00	2.1700-05	1.4500-12
-2.4	1.0000+00	1.1500-12	1.5000-15	.0000+00	1.7200-05	1.1500-12
-2.2	1.0000+00	9.1400-13	9.4400-16	.0000+00	1.3700-05	9.1500-13
-2.0	1.0000+00	7.2600-13	5.9600-16	.0000+00	1.0900-05	7.2600-13
-1.8	1.0000+00	5.7700-13	3.7600-16	.0000+00	8.6300-06	5.7700-13
-1.6	1.0000+00	4.5800-13	2.3700-16	.0000+00	6.8500-06	4.5800-13
-1.4	1.0000+00	3.6400-13	1.5000-16	.0000+00	5.4400-06	3.6400-13
-1.2	1.0000+00	2.8900-13	9.4500-17	.0000+00	4.3200-06	2.8900-13
-1.0	1.0000+00	2.3000-13	5.9600-17	.0000+00	3.4300-06	2.3000-13
-.8	1.0000+00	1.8200-13	3.7600-17	.0000+00	2.7300-06	1.8200-13
-.6	1.0000+00	1.4500-13	2.3800-17	.0000+00	2.1700-06	1.4500-13
-.4	1.0000+00	1.1500-13	1.5000-17	.0000+00	1.7200-06	1.1500-13
-.2	1.0000+00	9.1500-14	9.4700-18	.0000+00	1.3700-06	9.1500-14
.0	1.0000+00	7.2700-14	5.9900-18	.0000+00	1.0900-06	7.2700-14
.2	1.0000+00	5.7800-14	3.7900-18	.0000+00	8.6200-07	5.7800-14
.4	1.0000+00	4.6000-14	2.4000-18	.0000+00	6.8400-07	4.6000-14
.6	1.0000+00	3.6600-14	1.5300-18	.0000+00	5.4200-07	3.6600-14
.8	1.0000+00	2.9200-14	9.7600-19	.0000+00	4.3000-07	2.9200-14
1.0	1.0000+00	2.3300-14	6.2800-19	.0000+00	3.4000-07	2.3300-14
1.2	1.0000+00	1.8700-14	4.0800-19	.0000+00	2.6900-07	1.8700-14
1.4	1.0000+00	1.5000-14	2.7000-19	.0000+00	2.1200-07	1.5000-14
1.6	1.0000+00	1.2700-14	1.8400-19	.0000+00	1.6600-07	1.2200-14
1.8	1.0000+00	1.0000-14	1.3100-19	.0000+00	1.2900-07	1.0000-14
2.0	1.0000+00	8.4200-15	1.0000-19	.0000+00	9.9500-08	8.4200-15
2.2	1.0000+00	7.2900-15	8.5800-20	.0000+00	7.5100-08	7.2900-15

T= 2800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0017+00	3.1072+00	4.1090+00	4.5640+01	-5.9885+00	1.0017+00
-6.8	1.0014+00	3.0930+00	4.0944+00	4.5165+01	-5.7887+00	1.0014+00
-6.6	1.0011+00	3.0817+00	4.0827+00	4.4693+01	-5.5888+00	1.0011+00
-6.4	1.0009+00	3.0727+00	4.0735+00	4.4223+01	-5.3889+00	1.0009+00
-6.2	1.0007+00	3.0655+00	4.0662+00	4.3755+01	-5.1889+00	1.0007+00
-6.0	1.0005+00	3.0598+00	4.0604+00	4.3288+01	-4.9890+00	1.0005+00
-5.8	1.0004+00	3.0553+00	4.0558+00	4.2823+01	-4.7891+00	1.0004+00
-5.6	1.0003+00	3.0517+00	4.0521+00	4.2359+01	-4.5891+00	1.0003+00
-5.4	1.0003+00	3.0489+00	4.0492+00	4.1895+01	-4.3891+00	1.0003+00
-5.2	1.0002+00	3.0466+00	4.0468+00	4.1432+01	-4.1891+00	1.0002+00
-5.0	1.0002+00	3.0448+00	4.0450+00	4.0970+01	-3.9892+00	1.0002+00
-4.8	1.0001+00	3.0434+00	4.0435+00	4.0508+01	-3.7892+00	1.0001+00
-4.6	1.0001+00	3.0423+00	4.0424+00	4.0046+01	-3.5892+00	1.0001+00
-4.4	1.0001+00	3.0414+00	4.0415+00	3.9585+01	-3.3892+00	1.0001+00
-4.2	1.0001+00	3.0407+00	4.0407+00	3.9123+01	-3.1892+00	1.0001+00
-4.0	1.0001+00	3.0401+00	4.0401+00	3.8662+01	-2.9892+00	1.0001+00
-3.8	1.0000+00	3.0396+00	4.0397+00	3.8201+01	-2.7892+00	1.0000+00
-3.6	1.0000+00	3.0393+00	4.0393+00	3.7740+01	-2.5892+00	1.0000+00
-3.4	1.0000+00	3.0390+00	4.0390+00	3.7279+01	-2.3892+00	1.0000+00
-3.2	1.0000+00	3.0388+00	4.0388+00	3.6819+01	-2.1892+00	1.0000+00
-3.0	1.0000+00	3.0386+00	4.0386+00	3.6358+01	-1.9892+00	1.0000+00
-2.8	1.0000+00	3.0384+00	4.0385+00	3.5897+01	-1.7892+00	1.0000+00
-2.6	1.0000+00	3.0383+00	4.0383+00	3.5437+01	-1.5892+00	1.0000+00
-2.4	1.0000+00	3.0382+00	4.0383+00	3.4976+01	-1.3892+00	1.0000+00
-2.2	1.0000+00	3.0382+00	4.0382+00	3.4516+01	-1.1892+00	1.0000+00
-2.0	1.0000+00	3.0381+00	4.0381+00	3.4055+01	-9.8923-01	1.0000+00
-1.8	1.0000+00	3.0381+00	4.0381+00	3.3594+01	-7.8923-01	1.0000+00
-1.6	1.0000+00	3.0380+00	4.0381+00	3.3134+01	-5.8922-01	1.0000+00
-1.4	1.0001+00	3.0380+00	4.0381+00	3.2673+01	-3.8922-01	1.0000+00
-1.2	1.0001+00	3.0380+00	4.0381+00	3.2213+01	-1.8920-01	1.0000+00
-1.0	1.0001+00	3.0380+00	4.0381+00	3.1752+01	1.0823-02	1.0000+00
-.8	1.0002+00	3.0380+00	4.0382+00	3.1291+01	2.1086-01	1.0000+00
-.6	1.0004+00	3.0380+00	4.0383+00	3.0831+01	4.1092-01	1.0000+00
-.4	1.0006+00	3.0379+00	4.0385+00	3.0370+01	6.1101-01	1.0000+00
-.2	1.0007+00	3.0380+00	4.0389+00	2.9909+01	8.1116-01	1.0000+00
.0	1.0015+00	3.0380+00	4.0394+00	2.9448+01	1.0114+00	1.0000+00
.2	1.0023+00	3.0380+00	4.0403+00	2.8987+01	1.2118+00	1.0000+00
.4	1.0037+00	3.0380+00	4.0417+00	2.8525+01	1.4124+00	1.0000+00
.6	1.0059+00	3.0381+00	4.0440+00	2.8062+01	1.6133+00	1.0000+00
.8	1.0094+00	3.0382+00	4.0475+00	2.7598+01	1.8148+00	1.0000+00
1.0	1.0148+00	3.0383+00	4.0532+00	2.7133+01	2.0171+00	1.0000+00
1.2	1.0235+00	3.0386+00	4.0621+00	2.6664+01	2.2208+00	1.0000+00
1.4	1.0372+00	3.0390+00	4.0762+00	2.6190+01	2.4266+00	1.0000+00
1.6	1.0590+00	3.0396+00	4.0986+00	2.5708+01	2.6357+00	1.0000+00
1.8	1.0935+00	3.0406+00	4.1342+00	2.5214+01	2.8496+00	1.0000+00
2.0	1.1482+00	3.0423+00	4.1905+00	2.4701+01	3.0708+00	1.0000+00
2.2	1.2349+00	3.0448+00	4.2797+00	2.4156+01	3.3024+00	1.0000+00

T= 2900

LOG D	N2	N2+	N+	N++	N	E
-7.0	9.9300-01	5.9500-10	2.6600-10	.0000+00	6.8600-03	8.6100-10
-6.8	9.9500-01	4.8900-10	1.7400-10	.0000+00	5.4500-03	6.6300-10
-6.6	9.9600-01	4.0000-10	1.1300-10	.0000+00	4.3400-03	5.1300-10
-6.4	9.9700-01	3.2500-10	7.2800-11	.0000+00	3.4500-03	3.9800-10
-6.2	9.9700-01	2.6400-10	4.6800-11	.0000+00	2.7400-03	3.1000-10
-6.0	9.9800-01	2.1300-10	3.0000-11	.0000+00	2.1800-03	2.4300-10
-5.8	9.9800-01	1.7100-10	1.9200-11	.0000+00	1.7300-03	1.9000-10
-5.6	9.9900-01	1.3800-10	1.2200-11	.0000+00	1.3700-03	1.5000-10
-5.4	9.9900-01	1.1000-10	7.7900-12	.0000+00	1.0900-03	1.1800-10
-5.2	9.9900-01	8.8100-11	4.9500-12	.0000+00	8.6700-04	9.3100-11
-5.0	9.9900-01	7.0400-11	3.1400-12	.0000+00	6.8900-04	7.3500-11
-4.8	9.9900-01	5.6200-11	1.9900-12	.0000+00	5.4700-04	5.8200-11
-4.6	1.0000+00	4.4800-11	1.2600-12	.0000+00	4.3500-04	4.6000-11
-4.4	1.0000+00	3.5700-11	7.9800-13	.0000+00	3.4500-04	3.6500-11
-4.2	1.0000+00	2.8400-11	5.0400-13	.0000+00	2.7400-04	2.8900-11
-4.0	1.0000+00	2.2600-11	3.1900-13	.0000+00	2.1800-04	2.2900-11
-3.8	1.0000+00	1.8000-11	2.0100-13	.0000+00	1.7300-04	1.8200-11
-3.6	1.0000+00	1.4300-11	1.2700-13	.0000+00	1.3800-04	1.4400-11
-3.4	1.0000+00	1.1400-11	8.0400-14	.0000+00	1.0900-04	1.1400-11
-3.2	1.0000+00	9.0400-12	5.0700-14	.0000+00	8.6800-05	9.0900-12
-3.0	1.0000+00	7.1800-12	3.2000-14	.0000+00	6.8900-05	7.2100-12
-2.8	1.0000+00	5.7100-12	2.0200-14	.0000+00	5.4800-05	5.7300-12
-2.6	1.0000+00	4.5400-12	1.2800-14	.0000+00	4.3500-05	4.5500-12
-2.4	1.0000+00	3.6000-12	8.0600-15	.0000+00	3.4500-05	3.6100-12
-2.2	1.0000+00	2.8600-12	5.0800-15	.0000+00	2.7400-05	2.8700-12
-2.0	1.0000+00	2.2700-12	3.2100-15	.0000+00	2.1800-05	2.2800-12
-1.8	1.0000+00	1.8100-12	2.0300-15	.0000+00	1.7300-05	1.8100-12
-1.6	1.0000+00	1.4400-12	1.2800-15	.0000+00	1.3800-05	1.4400-12
-1.4	1.0000+00	1.1400-12	8.0600-16	.0000+00	1.0900-05	1.1400-12
-1.2	1.0000+00	9.0600-13	5.0900-16	.0000+00	8.6800-06	9.0700-13
-1.0	1.0000+00	7.2000-13	3.2100-16	.0000+00	6.8900-06	7.2000-13
-.8	1.0000+00	5.7200-13	2.0300-16	.0000+00	5.4700-06	5.7200-13
-.6	1.0000+00	4.5400-13	1.2800-16	.0000+00	4.3500-06	4.5400-13
-.4	1.0000+00	3.6100-13	8.0800-17	.0000+00	3.4500-06	3.6100-13
-.2	1.0000+00	2.8700-13	5.1000-17	.0000+00	2.7400-06	2.8700-13
.0	1.0000+00	2.2800-13	3.2300-17	.0000+00	2.1800-06	2.2800-13
.2	1.0000+00	1.8100-13	2.0400-17	.0000+00	1.7300-06	1.8100-13
.4	1.0000+00	1.4400-13	1.2900-17	.0000+00	1.3700-06	1.4400-13
.6	1.0000+00	1.1500-13	8.2300-18	.0000+00	1.0900-06	1.1500-13
.8	1.0000+00	9.1500-14	5.2500-18	.0000+00	8.6300-07	9.1500-14
1.0	1.0000+00	7.3100-14	3.3700-18	.0000+00	6.8300-07	7.3100-14
1.2	1.0000+00	5.8500-14	2.1900-18	.0000+00	5.4000-07	5.8500-14
1.4	1.0000+00	4.7100-14	1.4500-18	.0000+00	4.2600-07	4.7100-14
1.6	1.0000+00	3.8300-14	9.8200-19	.0000+00	3.3400-07	3.8300-14
1.8	1.0000+00	3.1500-14	6.9500-19	.0000+00	2.6000-07	3.1500-14
2.0	1.0000+00	2.6400-14	5.2700-19	.0000+00	2.0000-07	2.6400-14
2.2	1.0000+00	2.2900-14	4.4400-19	.0000+00	1.5100-07	2.2900-14

T= 2900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0034+00	3.1859+00	4.1894+00	4.5829+01	-5.9725+00	1.0034+00
-6.8	1.0027+00	3.1583+00	4.1611+00	4.5340+01	-5.7728+00	1.0027+00
-6.6	1.0022+00	3.1364+00	4.1386+00	4.4856+01	-5.5731+00	1.0022+00
-6.4	1.0017+00	3.1190+00	4.1208+00	4.4378+01	-5.3733+00	1.0017+00
-6.2	1.0014+00	3.1052+00	4.1066+00	4.3903+01	-5.1734+00	1.0014+00
-6.0	1.0011+00	3.0942+00	4.0953+00	4.3430+01	-4.9735+00	1.0011+00
-5.8	1.0009+00	3.0855+00	4.0863+00	4.2961+01	-4.7736+00	1.0009+00
-5.6	1.0007+00	3.0785+00	4.0792+00	4.2493+01	-4.5737+00	1.0007+00
-5.4	1.0005+00	3.0730+00	4.0736+00	4.2027+01	-4.3738+00	1.0005+00
-5.2	1.0004+00	3.0686+00	4.0691+00	4.1561+01	-4.1738+00	1.0004+00
-5.0	1.0003+00	3.0651+00	4.0655+00	4.1097+01	-3.9739+00	1.0003+00
-4.8	1.0003+00	3.0624+00	4.0627+00	4.0634+01	-3.7739+00	1.0003+00
-4.6	1.0002+00	3.0602+00	4.0604+00	4.0171+01	-3.5739+00	1.0002+00
-4.4	1.0002+00	3.0584+00	4.0586+00	3.9709+01	-3.3739+00	1.0002+00
-4.2	1.0001+00	3.0571+00	4.0572+00	3.9247+01	-3.1739+00	1.0001+00
-4.0	1.0001+00	3.0560+00	4.0561+00	3.8785+01	-2.9740+00	1.0001+00
-3.8	1.0001+00	3.0551+00	4.0552+00	3.8324+01	-2.7740+00	1.0001+00
-3.6	1.0001+00	3.0544+00	4.0545+00	3.7862+01	-2.5740+00	1.0001+00
-3.4	1.0001+00	3.0538+00	4.0539+00	3.7401+01	-2.3740+00	1.0001+00
-3.2	1.0000+00	3.0534+00	4.0534+00	3.6940+01	-2.1740+00	1.0000+00
-3.0	1.0000+00	3.0530+00	4.0531+00	3.6479+01	-1.9740+00	1.0000+00
-2.8	1.0000+00	3.0528+00	4.0528+00	3.6019+01	-1.7740+00	1.0000+00
-2.6	1.0000+00	3.0526+00	4.0526+00	3.5558+01	-1.5740+00	1.0000+00
-2.4	1.0000+00	3.0524+00	4.0524+00	3.5097+01	-1.3740+00	1.0000+00
-2.2	1.0000+00	3.0522+00	4.0523+00	3.4636+01	-1.1740+00	1.0000+00
-2.0	1.0000+00	3.0521+00	4.0522+00	3.4176+01	-9.7399-01	1.0000+00
-1.8	1.0000+00	3.0520+00	4.0521+00	3.3715+01	-7.7399-01	1.0000+00
-1.6	1.0000+00	3.0520+00	4.0520+00	3.3255+01	-5.7398-01	1.0000+00
-1.4	1.0001+00	3.0519+00	4.0520+00	3.2794+01	-3.7397-01	1.0000+00
-1.2	1.0001+00	3.0519+00	4.0520+00	3.2333+01	-1.7396-01	1.0000+00
-1.0	1.0002+00	3.0518+00	4.0520+00	3.1873+01	2.6064-02	1.0000+00
-.8	1.0002+00	3.0518+00	4.0521+00	3.1412+01	2.2610-01	1.0000+00
-.6	1.0004+00	3.0518+00	4.0522+00	3.0952+01	4.2616-01	1.0000+00
-.4	1.0006+00	3.0518+00	4.0524+00	3.0491+01	6.2625-01	1.0000+00
-.2	1.0009+00	3.0518+00	4.0527+00	3.0030+01	8.2640-01	1.0000+00
.0	1.0015+00	3.0518+00	4.0533+00	2.9569+01	1.0266+00	1.0000+00
.2	1.0023+00	3.0518+00	4.0542+00	2.9108+01	1.2270+00	1.0000+00
.4	1.0037+00	3.0519+00	4.0556+00	2.8646+01	1.4276+00	1.0000+00
.6	1.0059+00	3.0519+00	4.0578+00	2.8183+01	1.6285+00	1.0000+00
.8	1.0093+00	3.0521+00	4.0614+00	2.7719+01	1.8300+00	1.0000+00
1.0	1.0148+00	3.0522+00	4.0670+00	2.7253+01	2.0324+00	1.0000+00
1.2	1.0235+00	3.0525+00	4.0760+00	2.6785+01	2.2361+00	1.0000+00
1.4	1.0372+00	3.0530+00	4.0902+00	2.6311+01	2.4419+00	1.0000+00
1.6	1.0589+00	3.0538+00	4.1127+00	2.5829+01	2.6509+00	1.0000+00
1.8	1.0934+00	3.0550+00	4.1484+00	2.5336+01	2.8648+00	1.0000+00
2.0	1.1480+00	3.0569+00	4.2050+00	2.4822+01	3.0860+00	1.0000+00
2.2	1.2346+00	3.0600+00	4.2946+00	2.4278+01	3.3175+00	1.0000+00

T= 3000

LOG D	N2	N2+	N+	N++	N	E
-7.0	9.8700-01	1.5700-09	1.1600-09	.0000+00	1.3100-02	2.7400-09
-6.8	9.9000-01	1.3100-09	7.7100-10	.0000+00	1.0400-02	2.0800-09
-6.6	9.9200-01	1.0800-09	5.0700-10	.0000+00	8.2800-03	1.5900-09
-6.4	9.9300-01	8.9100-10	3.3100-10	.0000+00	6.5800-03	1.2200-09
-6.2	9.9500-01	7.2900-10	2.1500-10	.0000+00	5.2300-03	9.4400-10
-6.0	9.9600-01	5.9400-10	1.3900-10	.0000+00	4.1600-03	7.3300-10
-5.8	9.9700-01	4.8200-10	8.9500-11	.0000+00	3.3100-03	5.7100-10
-5.6	9.9700-01	3.8900-10	5.7400-11	.0000+00	2.6300-03	4.4600-10
-5.4	9.9800-01	3.1300-10	3.6700-11	.0000+00	2.0900-03	3.5000-10
-5.2	9.9800-01	2.5200-10	2.3400-11	.0000+00	1.6600-03	2.7500-10
-5.0	9.9900-01	2.0200-10	1.4900-11	.0000+00	1.3200-03	2.1700-10
-4.8	9.9900-01	1.6100-10	9.4900-12	.0000+00	1.0500-03	1.7100-10
-4.6	9.9900-01	1.2900-10	6.0200-12	.0000+00	8.3200-04	1.3500-10
-4.4	9.9900-01	1.0300-10	3.8200-12	.0000+00	6.6100-04	1.0700-10
-4.2	9.9900-01	8.2100-11	2.4200-12	.0000+00	5.2500-04	8.4500-11
-4.0	1.0000+00	6.5400-11	1.5300-12	.0000+00	4.1700-04	6.6900-11
-3.8	1.0000+00	5.2100-11	9.6700-13	.0000+00	3.3200-04	5.3000-11
-3.6	1.0000+00	4.1400-11	6.1200-13	.0000+00	2.6300-04	4.2100-11
-3.4	1.0000+00	3.3000-11	3.8600-13	.0000+00	2.0900-04	3.3400-11
-3.2	1.0000+00	2.6200-11	2.4400-13	.0000+00	1.6600-04	2.6500-11
-3.0	1.0000+00	2.0800-11	1.5400-13	.0000+00	1.3200-04	2.1000-11
-2.8	1.0000+00	1.6600-11	9.7400-14	.0000+00	1.0500-04	1.6700-11
-2.6	1.0000+00	1.3200-11	6.1500-14	.0000+00	8.3300-05	1.3200-11
-2.4	1.0000+00	1.0500-11	3.8800-14	.0000+00	6.6200-05	1.0500-11
-2.2	1.0000+00	8.3200-12	2.4500-14	.0000+00	5.2600-05	8.3400-12
-2.0	1.0000+00	6.6100-12	1.5500-14	.0000+00	4.1700-05	6.6300-12
-1.8	1.0000+00	5.2500-12	9.7600-15	.0000+00	3.3200-05	5.2600-12
-1.6	1.0000+00	4.1700-12	6.1600-15	.0000+00	2.6300-05	4.1800-12
-1.4	1.0000+00	3.3100-12	3.8900-15	.0000+00	2.0900-05	3.3200-12
-1.2	1.0000+00	2.6300-12	2.4500-15	.0000+00	1.6600-05	2.6400-12
-1.0	1.0000+00	2.0900-12	1.5500-15	.0000+00	1.3200-05	2.0900-12
-.8	1.0000+00	1.6600-12	9.7700-16	.0000+00	1.0500-05	1.6600-12
-.6	1.0000+00	1.3200-12	6.1700-16	.0000+00	8.3300-06	1.3200-12
-.4	1.0000+00	1.0500-12	3.8900-16	.0000+00	6.6100-06	1.0500-12
-.2	1.0000+00	8.3400-13	2.4600-16	.0000+00	5.2500-06	8.3400-13
.0	1.0000+00	6.6300-13	1.5500-16	.0000+00	4.1700-06	6.6300-13
.2	1.0000+00	5.2700-13	9.8400-17	.0000+00	3.3100-06	5.2700-13
.4	1.0000+00	4.1900-13	6.2300-17	.0000+00	2.6300-06	4.1900-13
.6	1.0000+00	3.3400-13	3.9600-17	.0000+00	2.0900-06	3.3400-13
.8	1.0000+00	2.6600-13	2.5300-17	.0000+00	1.6500-06	2.6600-13
1.0	1.0000+00	2.1200-13	1.6200-17	.0000+00	1.3100-06	2.1200-13
1.2	1.0000+00	1.7000-13	1.0500-17	.0000+00	1.0300-06	1.7000-13
1.4	1.0000+00	1.3700-13	6.9400-18	.0000+00	8.1500-07	1.3700-13
1.6	1.0000+00	1.1100-13	4.6900-18	.0000+00	6.3900-07	1.1100-13
1.8	1.0000+00	9.1500-14	3.3000-18	.0000+00	4.9800-07	9.1500-14
2.0	1.0000+00	7.6700-14	2.4800-18	.0000+00	3.8300-07	7.6700-14
2.2	1.0000+00	6.6400-14	2.0600-18	.0000+00	2.8900-07	6.6400-14

T= 3000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0066+00	3.3126+00	4.3191+00	4.6066+01	-5.9564+00	1.0066+00
-6.8	1.0052+00	3.2617+00	4.2669+00	4.5552+01	-5.7570+00	1.0052+00
-6.6	1.0042+00	3.2212+00	4.2254+00	4.5049+01	-5.5575+00	1.0042+00
-6.4	1.0033+00	3.1891+00	4.1924+00	4.4555+01	-5.3578+00	1.0033+00
-6.2	1.0026+00	3.1635+00	4.1661+00	4.4067+01	-5.1581+00	1.0026+00
-6.0	1.0021+00	3.1432+00	4.1453+00	4.3586+01	-4.9584+00	1.0021+00
-5.8	1.0017+00	3.1270+00	4.1287+00	4.3108+01	-4.7586+00	1.0017+00
-5.6	1.0013+00	3.1142+00	4.1155+00	4.2634+01	-4.5587+00	1.0013+00
-5.4	1.0010+00	3.1040+00	4.1051+00	4.2163+01	-4.3588+00	1.0010+00
-5.2	1.0008+00	3.0959+00	4.0967+00	4.1694+01	-4.1589+00	1.0008+00
-5.0	1.0007+00	3.0895+00	4.0901+00	4.1226+01	-3.9590+00	1.0007+00
-4.8	1.0005+00	3.0844+00	4.0849+00	4.0760+01	-3.7591+00	1.0005+00
-4.6	1.0004+00	3.0803+00	4.0807+00	4.0296+01	-3.5591+00	1.0004+00
-4.4	1.0003+00	3.0771+00	4.0774+00	3.9832+01	-3.3591+00	1.0003+00
-4.2	1.0003+00	3.0745+00	4.0748+00	3.9369+01	-3.1592+00	1.0003+00
-4.0	1.0002+00	3.0725+00	4.0727+00	3.8906+01	-2.9592+00	1.0002+00
-3.8	1.0002+00	3.0708+00	4.0710+00	3.8444+01	-2.7592+00	1.0002+00
-3.6	1.0001+00	3.0696+00	4.0697+00	3.7982+01	-2.5592+00	1.0001+00
-3.4	1.0001+00	3.0685+00	4.0686+00	3.7520+01	-2.3592+00	1.0001+00
-3.2	1.0001+00	3.0677+00	4.0678+00	3.7059+01	-2.1592+00	1.0001+00
-3.0	1.0001+00	3.0671+00	4.0672+00	3.6598+01	-1.9592+00	1.0001+00
-2.8	1.0001+00	3.0666+00	4.0666+00	3.6137+01	-1.7593+00	1.0001+00
-2.6	1.0000+00	3.0662+00	4.0662+00	3.5676+01	-1.5593+00	1.0000+00
-2.4	1.0000+00	3.0658+00	4.0659+00	3.5215+01	-1.3593+00	1.0000+00
-2.2	1.0000+00	3.0656+00	4.0656+00	3.4754+01	-1.1593+00	1.0000+00
-2.0	1.0000+00	3.0654+00	4.0654+00	3.4293+01	-9.5926-01	1.0000+00
-1.8	1.0000+00	3.0652+00	4.0653+00	3.3833+01	-7.5926-01	1.0000+00
-1.6	1.0001+00	3.0651+00	4.0651+00	3.3372+01	-5.5926-01	1.0000+00
-1.4	1.0001+00	3.0650+00	4.0651+00	3.2911+01	-3.5925-01	1.0000+00
-1.2	1.0001+00	3.0649+00	4.0650+00	3.2451+01	-1.5923-01	1.0000+00
-1.0	1.0002+00	3.0649+00	4.0650+00	3.1990+01	4.0788-02	1.0000+00
-.8	1.0002+00	3.0648+00	4.0650+00	3.1529+01	2.4083-01	1.0000+00
-.6	1.0004+00	3.0648+00	4.0651+00	3.1069+01	4.4088-01	1.0000+00
-.4	1.0006+00	3.0647+00	4.0653+00	3.0608+01	6.4098-01	1.0000+00
-.2	1.0009+00	3.0647+00	4.0657+00	3.0147+01	8.4113-01	1.0000+00
.0	1.0015+00	3.0647+00	4.0662+00	2.9686+01	1.0414+00	1.0000+00
.2	1.0023+00	3.0648+00	4.0671+00	2.9225+01	1.2417+00	1.0000+00
.4	1.0037+00	3.0648+00	4.0685+00	2.8763+01	1.4423+00	1.0000+00
.6	1.0059+00	3.0649+00	4.0708+00	2.8300+01	1.6433+00	1.0000+00
.8	1.0093+00	3.0650+00	4.0743+00	2.7836+01	1.8448+00	1.0000+00
1.0	1.0148+00	3.0652+00	4.0800+00	2.7371+01	2.0471+00	1.0000+00
1.2	1.0234+00	3.0656+00	4.0890+00	2.6902+01	2.2508+00	1.0000+00
1.4	1.0371+00	3.0661+00	4.1033+00	2.6428+01	2.4566+00	1.0000+00
1.6	1.0589+00	3.0670+00	4.1259+00	2.5947+01	2.6656+00	1.0000+00
1.8	1.0933+00	3.0684+00	4.1617+00	2.5453+01	2.8795+00	1.0000+00
2.0	1.1479+00	3.0707+00	4.2185+00	2.4940+01	3.1006+00	1.0000+00
2.2	1.2343+00	3.0742+00	4.3085+00	2.4397+01	3.3322+00	1.0000+00

T= 3100

LOG D	N2	N2+	N+	N++	N	E
-7.0	9.7600-01	3.7700-09	4.5000-09	.0000+00	2.3800-02	8.2700-09
-6.8	9.8100-01	3.1900-09	3.0200-09	.0000+00	1.9000-02	6.2100-09
-6.6	9.8500-01	2.6800-09	2.0100-09	.0000+00	1.5100-02	4.7000-09
-6.4	9.8800-01	2.2400-09	1.3300-09	.0000+00	1.2000-02	3.5700-09
-6.2	9.9000-01	1.8500-09	8.7600-10	.0000+00	9.5800-03	2.7300-09
-6.0	9.9200-01	1.5300-09	5.7200-10	.0000+00	7.6200-03	2.1000-09
-5.8	9.9400-01	1.2500-09	3.7200-10	.0000+00	6.0600-03	1.6200-09
-5.6	9.9500-01	1.0200-09	2.4100-10	.0000+00	4.8200-03	1.2600-09
-5.4	9.9600-01	8.2500-10	1.5500-10	.0000+00	3.8300-03	9.8000-10
-5.2	9.9700-01	6.6700-10	9.9500-11	.0000+00	3.0500-03	7.6600-10
-5.0	9.9800-01	5.3700-10	6.3600-11	.0000+00	2.4200-03	6.0100-10
-4.8	9.9800-01	4.3100-10	4.0600-11	.0000+00	1.9200-03	4.7200-10
-4.6	9.9800-01	3.4600-10	2.5900-11	.0000+00	1.5300-03	3.7200-10
-4.4	9.9900-01	2.7700-10	1.6400-11	.0000+00	1.2100-03	2.9300-10
-4.2	9.9900-01	2.2100-10	1.0400-11	.0000+00	9.6500-04	2.3200-10
-4.0	9.9900-01	1.7700-10	6.6100-12	.0000+00	7.6600-04	1.8300-10
-3.8	9.9900-01	1.4100-10	4.1900-12	.0000+00	6.0900-04	1.4500-10
-3.6	1.0000+00	1.1200-10	2.6500-12	.0000+00	4.8400-04	1.1500-10
-3.4	1.0000+00	8.9300-11	1.6800-12	.0000+00	3.8400-04	9.1000-11
-3.2	1.0000+00	7.1100-11	1.0600-12	.0000+00	3.0500-04	7.2100-11
-3.0	1.0000+00	5.6600-11	6.7000-13	.0000+00	2.4200-04	5.7200-11
-2.8	1.0000+00	4.5000-11	4.2300-13	.0000+00	1.9300-04	4.5400-11
-2.6	1.0000+00	3.5800-11	2.6700-13	.0000+00	1.5300-04	3.6000-11
-2.4	1.0000+00	2.8400-11	1.6900-13	.0000+00	1.2200-04	2.8600-11
-2.2	1.0000+00	2.2600-11	1.0700-13	.0000+00	9.6500-05	2.2700-11
-2.0	1.0000+00	1.8000-11	6.7300-14	.0000+00	7.6700-05	1.8000-11
-1.8	1.0000+00	1.4300-11	4.2500-14	.0000+00	6.0900-05	1.4300-11
-1.6	1.0000+00	1.1300-11	2.6800-14	.0000+00	4.8400-05	1.1400-11
-1.4	1.0000+00	9.0100-12	1.6900-14	.0000+00	3.8400-05	9.0300-12
-1.2	1.0000+00	7.1600-12	1.0700-14	.0000+00	3.0500-05	7.1700-12
-1.0	1.0000+00	5.6900-12	6.7400-15	.0000+00	2.4200-05	5.6900-12
-.8	1.0000+00	4.5200-12	4.2500-15	.0000+00	1.9300-05	4.5200-12
-.6	1.0000+00	3.5900-12	2.6800-15	.0000+00	1.5300-05	3.5900-12
-.4	1.0000+00	2.8500-12	1.7000-15	.0000+00	1.2100-05	2.8500-12
-.2	1.0000+00	2.2700-12	1.0700-15	.0000+00	9.6500-06	2.2700-12
.0	1.0000+00	1.8000-12	6.7700-16	.0000+00	7.6600-06	1.8000-12
.2	1.0000+00	1.4300-12	4.2800-16	.0000+00	6.0800-06	1.4300-12
.4	1.0000+00	1.1400-12	2.7100-16	.0000+00	4.8300-06	1.1400-12
.6	1.0000+00	9.0700-13	1.7200-16	.0000+00	3.8300-06	9.0700-13
.8	1.0000+00	7.2300-13	1.1000-16	.0000+00	3.0400-06	7.2300-13
1.0	1.0000+00	5.7700-13	7.0500-17	.0000+00	2.4000-06	5.7800-13
1.2	1.0000+00	4.6300-13	4.5700-17	.0000+00	1.9000-06	4.6300-13
1.4	1.0000+00	3.7300-13	3.0000-17	.0000+00	1.5000-06	3.7300-13
1.6	1.0000+00	3.0200-13	2.0200-17	.0000+00	1.1700-06	3.0200-13
1.8	1.0000+00	2.4900-13	1.4200-17	.0000+00	9.1400-07	2.4900-13
2.0	1.0000+00	2.0900-13	1.0600-17	.0000+00	7.0300-07	2.0900-13
2.2	1.0000+00	1.8100-13	8.6600-18	.0000+00	5.3100-07	1.8100-13



T= 3100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0121+00	3.5172+00	4.5293+00	4.6382+01	-5.9398+00	1.0121+00
-6.8	1.0096+00	3.4273+00	4.4368+00	4.5827+01	-5.7409+00	1.0096+00
-6.6	1.0076+00	3.3557+00	4.3633+00	4.5291+01	-5.5417+00	1.0076+00
-6.4	1.0061+00	3.2987+00	4.3047+00	4.4770+01	-5.3424+00	1.0061+00
-6.2	1.0048+00	3.2534+00	4.2582+00	4.4262+01	-5.1430+00	1.0048+00
-6.0	1.0038+00	3.2173+00	4.2212+00	4.3763+01	-4.9434+00	1.0038+00
-5.8	1.0030+00	3.1887+00	4.1917+00	4.3273+01	-4.7437+00	1.0030+00
-5.6	1.0024+00	3.1659+00	4.1683+00	4.2788+01	-4.5440+00	1.0024+00
-5.4	1.0019+00	3.1478+00	4.1497+00	4.2308+01	-4.3442+00	1.0019+00
-5.2	1.0015+00	3.1334+00	4.1349+00	4.1833+01	-4.1444+00	1.0015+00
-5.0	1.0012+00	3.1220+00	4.1232+00	4.1360+01	-3.9445+00	1.0012+00
-4.8	1.0010+00	3.1129+00	4.1139+00	4.0890+01	-3.7446+00	1.0010+00
-4.6	1.0008+00	3.1057+00	4.1064+00	4.0422+01	-3.5447+00	1.0008+00
-4.4	1.0006+00	3.0999+00	4.1006+00	3.9955+01	-3.3448+00	1.0006+00
-4.2	1.0005+00	3.0954+00	4.0959+00	3.9490+01	-3.1448+00	1.0005+00
-4.0	1.0004+00	3.0918+00	4.0922+00	3.9026+01	-2.9449+00	1.0004+00
-3.8	1.0003+00	3.0889+00	4.0892+00	3.8562+01	-2.7449+00	1.0003+00
-3.6	1.0002+00	3.0866+00	4.0869+00	3.8099+01	-2.5449+00	1.0002+00
-3.4	1.0002+00	3.0848+00	4.0850+00	3.7637+01	-2.3450+00	1.0002+00
-3.2	1.0002+00	3.0834+00	4.0835+00	3.7175+01	-2.1450+00	1.0002+00
-3.0	1.0001+00	3.0822+00	4.0823+00	3.6713+01	-1.9450+00	1.0001+00
-2.8	1.0001+00	3.0813+00	4.0814+00	3.6252+01	-1.7450+00	1.0001+00
-2.6	1.0001+00	3.0806+00	4.0807+00	3.5790+01	-1.5450+00	1.0001+00
-2.4	1.0001+00	3.0800+00	4.0801+00	3.5329+01	-1.3450+00	1.0001+00
-2.2	1.0001+00	3.0796+00	4.0796+00	3.4868+01	-1.1450+00	1.0000+00
-2.0	1.0001+00	3.0792+00	4.0793+00	3.4407+01	-9.4502-01	1.0000+00
-1.8	1.0001+00	3.0789+00	4.0790+00	3.3946+01	-7.4502-01	1.0000+00
-1.6	1.0001+00	3.0787+00	4.0787+00	3.3486+01	-5.4501-01	1.0000+00
-1.4	1.0001+00	3.0785+00	4.0786+00	3.3025+01	-3.4500-01	1.0000+00
-1.2	1.0001+00	3.0784+00	4.0785+00	3.2564+01	-1.4499-01	1.0000+00
-1.0	1.0002+00	3.0783+00	4.0784+00	3.2104+01	5.5031-02	1.0000+00
-.8	1.0002+00	3.0782+00	4.0784+00	3.1643+01	2.5507-01	1.0000+00
-.6	1.0004+00	3.0781+00	4.0785+00	3.1182+01	4.5513-01	1.0000+00
-.4	1.0006+00	3.0780+00	4.0786+00	3.0721+01	6.5522-01	1.0000+00
-.2	1.0009+00	3.0780+00	4.0790+00	3.0260+01	8.5537-01	1.0000+00
.0	1.0015+00	3.0780+00	4.0795+00	2.9799+01	1.0556+00	1.0000+00
.2	1.0023+00	3.0780+00	4.0804+00	2.9338+01	1.2560+00	1.0000+00
.4	1.0037+00	3.0781+00	4.0818+00	2.8876+01	1.4566+00	1.0000+00
.6	1.0059+00	3.0781+00	4.0840+00	2.8414+01	1.6575+00	1.0000+00
.8	1.0093+00	3.0783+00	4.0876+00	2.7950+01	1.8590+00	1.0000+00
1.0	1.0148+00	3.0785+00	4.0933+00	2.7484+01	2.0613+00	1.0000+00
1.2	1.0234+00	3.0789+00	4.1023+00	2.7015+01	2.2650+00	1.0000+00
1.4	1.0371+00	3.0795+00	4.1166+00	2.6542+01	2.4708+00	1.0000+00
1.6	1.0588+00	3.0805+00	4.1393+00	2.6060+01	2.6798+00	1.0000+00
1.8	1.0932+00	3.0821+00	4.1753+00	2.5567+01	2.8936+00	1.0000+00
2.0	1.1476+00	3.0846+00	4.2323+00	2.5055+01	3.1148+00	1.0000+00
2.2	1.2340+00	3.0886+00	4.3226+00	2.4512+01	3.3463+00	1.0000+00

T= 3200

LOG D	N2	N2+	N+	N++	N	E
-7.0	9.5800-01	8.3300-09	1.5500-08	.0000+00	4.1500-02	2.3800-08
-6.8	9.6700-01	7.1600-09	1.0600-08	.0000+00	3.3200-02	1.7700-08
-6.6	9.7300-01	6.1000-09	7.1400-09	.0000+00	2.6500-02	1.3200-08
-6.4	9.7900-01	5.1700-09	4.7900-09	.0000+00	2.1100-02	9.9600-09
-6.2	9.8300-01	4.3400-09	3.1900-09	.0000+00	1.6800-02	7.5300-09
-6.0	9.8700-01	3.6200-09	2.1100-09	.0000+00	1.3400-02	5.7300-09
-5.8	9.8900-01	2.9900-09	1.3900-09	.0000+00	1.0700-02	4.3800-09
-5.6	9.9200-01	2.4600-09	9.0800-10	.0000+00	8.5000-03	3.3700-09
-5.4	9.9300-01	2.0200-09	5.9000-10	.0000+00	6.7600-03	2.6100-09
-5.2	9.9500-01	1.6400-09	3.8100-10	.0000+00	5.3700-03	2.0200-09
-5.0	9.9600-01	1.3300-09	2.4600-10	.0000+00	4.2700-03	1.5800-09
-4.8	9.9700-01	1.0800-09	1.5800-10	.0000+00	3.4000-03	1.2300-09
-4.6	9.9700-01	8.6700-10	1.0100-10	.0000+00	2.7000-03	9.6700-10
-4.4	9.9800-01	6.9600-10	6.4300-11	.0000+00	2.1400-03	7.6000-10
-4.2	9.9800-01	5.5800-10	4.0900-11	.0000+00	1.7000-03	5.9900-10
-4.0	9.9900-01	4.4700-10	2.6000-11	.0000+00	1.3500-03	4.7300-10
-3.8	9.9900-01	3.5700-10	1.6500-11	.0000+00	1.0800-03	3.7300-10
-3.6	9.9900-01	2.8500-10	1.0500-11	.0000+00	8.5500-04	2.9500-10
-3.4	9.9900-01	2.2700-10	6.6300-12	.0000+00	6.7900-04	2.3400-10
-3.2	9.9900-01	1.8100-10	4.2000-12	.0000+00	5.3900-04	1.8500-10
-3.0	1.0000+00	1.4400-10	2.6500-12	.0000+00	4.2800-04	1.4700-10
-2.8	1.0000+00	1.1500-10	1.6800-12	.0000+00	3.4000-04	1.1600-10
-2.6	1.0000+00	9.1200-11	1.0600-12	.0000+00	2.7000-04	9.2300-11
-2.4	1.0000+00	7.2500-11	6.7000-13	.0000+00	2.1500-04	7.3200-11
-2.2	1.0000+00	5.7700-11	4.2300-13	.0000+00	1.7100-04	5.8100-11
-2.0	1.0000+00	4.5800-11	2.6700-13	.0000+00	1.3600-04	4.6100-11
-1.8	1.0000+00	3.6400-11	1.6900-13	.0000+00	1.0800-04	3.6600-11
-1.6	1.0000+00	2.9000-11	1.0600-13	.0000+00	8.5500-05	2.9100-11
-1.4	1.0000+00	2.3000-11	6.7200-14	.0000+00	6.7900-05	2.3100-11
-1.2	1.0000+00	1.8300-11	4.2400-14	.0000+00	5.3900-05	1.8300-11
-1.0	1.0000+00	1.4500-11	2.6800-14	.0000+00	4.2800-05	1.4600-11
-.8	1.0000+00	1.1500-11	1.6900-14	.0000+00	3.4000-05	1.1600-11
-.6	1.0000+00	9.1700-12	1.0700-14	.0000+00	2.7000-05	9.1800-12
-.4	1.0000+00	7.2900-12	6.7400-15	.0000+00	2.1500-05	7.3000-12
-.2	1.0000+00	5.7900-12	4.2500-15	.0000+00	1.7100-05	5.8000-12
.0	1.0000+00	4.6000-12	2.6900-15	.0000+00	1.3500-05	4.6100-12
.2	1.0000+00	3.6600-12	1.7000-15	.0000+00	1.0700-05	3.6600-12
.4	1.0000+00	2.9100-12	1.0800-15	.0000+00	8.5300-06	2.9100-12
.6	1.0000+00	2.3200-12	6.8400-16	.0000+00	6.7700-06	2.3200-12
.8	1.0000+00	1.8500-12	4.3600-16	.0000+00	5.3700-06	1.8500-12
1.0	1.0000+00	1.4800-12	2.8000-16	.0000+00	4.2500-06	1.4800-12
1.2	1.0000+00	1.1800-12	1.8100-16	.0000+00	3.3600-06	1.1800-12
1.4	1.0000+00	9.5200-13	1.1900-16	.0000+00	2.6500-06	9.5200-13
1.6	1.0000+00	7.7300-13	7.9800-17	.0000+00	2.0800-06	7.7300-13
1.8	1.0000+00	6.3500-13	5.5600-17	.0000+00	1.6200-06	6.3500-13
2.0	1.0000+00	5.3300-13	4.1100-17	.0000+00	1.2400-06	5.3300-13
2.2	1.0000+00	4.6100-13	3.3300-17	.0000+00	9.4000-07	4.6100-13

T= 3200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0212+00	3.8382+00	4.8594+00	4.6820+01	-5.9221+00	1.0212+00
-6.8	1.0169+00	3.6855+00	4.7024+00	4.6198+01	-5.7240+00	1.0169+00
-6.6	1.0134+00	3.5638+00	4.5772+00	4.5609+01	-5.5255+00	1.0134+00
-6.4	1.0107+00	3.4668+00	4.4775+00	4.5046+01	-5.3266+00	1.0107+00
-6.2	1.0085+00	3.3895+00	4.3980+00	4.4504+01	-5.1276+00	1.0085+00
-6.0	1.0068+00	3.3281+00	4.3348+00	4.3978+01	-4.9283+00	1.0068+00
-5.8	1.0054+00	3.2791+00	4.2845+00	4.3466+01	-4.7289+00	1.0054+00
-5.6	1.0043+00	3.2402+00	4.2445+00	4.2964+01	-4.5294+00	1.0043+00
-5.4	1.0034+00	3.2093+00	4.2127+00	4.2471+01	-4.3298+00	1.0034+00
-5.2	1.0027+00	3.1847+00	4.1874+00	4.1985+01	-4.1301+00	1.0027+00
-5.0	1.0021+00	3.1652+00	4.1673+00	4.1503+01	-3.9303+00	1.0021+00
-4.8	1.0017+00	3.1497+00	4.1514+00	4.1027+01	-3.7305+00	1.0017+00
-4.6	1.0014+00	3.1373+00	4.1387+00	4.0553+01	-3.5307+00	1.0014+00
-4.4	1.0011+00	3.1275+00	4.1286+00	4.0082+01	-3.3308+00	1.0011+00
-4.2	1.0009+00	3.1197+00	4.1205+00	3.9613+01	-3.1309+00	1.0009+00
-4.0	1.0007+00	3.1135+00	4.1142+00	3.9146+01	-2.9310+00	1.0007+00
-3.8	1.0005+00	3.1086+00	4.1091+00	3.8681+01	-2.7310+00	1.0005+00
-3.6	1.0004+00	3.1047+00	4.1051+00	3.8216+01	-2.5311+00	1.0004+00
-3.4	1.0003+00	3.1016+00	4.1019+00	3.7752+01	-2.3311+00	1.0003+00
-3.2	1.0003+00	3.0991+00	4.0994+00	3.7289+01	-2.1311+00	1.0003+00
-3.0	1.0002+00	3.0972+00	4.0974+00	3.6826+01	-1.9312+00	1.0002+00
-2.8	1.0002+00	3.0956+00	4.0958+00	3.6364+01	-1.7312+00	1.0002+00
-2.6	1.0001+00	3.0944+00	4.0945+00	3.5902+01	-1.5312+00	1.0001+00
-2.4	1.0001+00	3.0934+00	4.0935+00	3.5441+01	-1.3312+00	1.0001+00
-2.2	1.0001+00	3.0926+00	4.0927+00	3.4980+01	-1.1312+00	1.0001+00
-2.0	1.0001+00	3.0920+00	4.0921+00	3.4518+01	-9.3121-01	1.0001+00
-1.8	1.0001+00	3.0915+00	4.0916+00	3.4057+01	-7.3122-01	1.0001+00
-1.6	1.0001+00	3.0911+00	4.0912+00	3.3596+01	-5.3122-01	1.0000+00
-1.4	1.0001+00	3.0908+00	4.0909+00	3.3136+01	-3.3121-01	1.0000+00
-1.2	1.0001+00	3.0906+00	4.0907+00	3.2675+01	-1.3120-01	1.0000+00
-1.0	1.0002+00	3.0904+00	4.0905+00	3.2214+01	6.8823-02	1.0000+00
-.8	1.0003+00	3.0902+00	4.0905+00	3.1753+01	2.6886-01	1.0000+00
-.6	1.0004+00	3.0901+00	4.0905+00	3.1292+01	4.6892-01	1.0000+00
-.4	1.0006+00	3.0900+00	4.0906+00	3.0832+01	6.6901-01	1.0000+00
-.2	1.0009+00	3.0900+00	4.0909+00	3.0371+01	8.6916-01	1.0000+00
.0	1.0015+00	3.0899+00	4.0914+00	2.9910+01	1.0694+00	1.0000+00
.2	1.0023+00	3.0899+00	4.0923+00	2.9448+01	1.2698+00	1.0000+00
.4	1.0037+00	3.0899+00	4.0937+00	2.8986+01	1.4704+00	1.0000+00
.6	1.0059+00	3.0900+00	4.0959+00	2.8524+01	1.6713+00	1.0000+00
.8	1.0093+00	3.0902+00	4.0995+00	2.8060+01	1.8728+00	1.0000+00
1.0	1.0147+00	3.0904+00	4.1052+00	2.7594+01	2.0751+00	1.0000+00
1.2	1.0234+00	3.0909+00	4.1142+00	2.7126+01	2.2788+00	1.0000+00
1.4	1.0370+00	3.0915+00	4.1286+00	2.6652+01	2.4845+00	1.0000+00
1.6	1.0587+00	3.0926+00	4.1513+00	2.6171+01	2.6935+00	1.0000+00
1.8	1.0930+00	3.0944+00	4.1874+00	2.5678+01	2.9074+00	1.0000+00
2.0	1.1474+00	3.0972+00	4.2446+00	2.5166+01	3.1285+00	1.0000+00
2.2	1.2336+00	3.1016+00	4.3352+00	2.4623+01	3.3599+00	1.0000+00

T= 3300

LOG D	N2	N2+	N+	N++	N	t
-7.0	9.3100-01	1.7000-08	4.8200-08	.0000+00	6.9400-02	6.5300-08
-6.8	9.4400-01	1.4900-08	3.3300-08	.0000+00	5.5700-02	4.8200-08
-6.6	9.5500-01	1.2900-08	2.2900-08	.0000+00	4.4600-02	3.5700-08
-6.4	9.6400-01	1.1000-08	1.5600-08	.0000+00	3.5700-02	2.6600-08
-6.2	9.7100-01	9.4100-09	1.0500-08	.0000+00	2.8500-02	1.9900-08
-6.0	9.7700-01	7.9600-09	7.0500-09	.0000+00	2.2700-02	1.5000-08
-5.8	9.8200-01	6.6700-09	4.6900-09	.0000+00	1.8100-02	1.1400-08
-5.6	9.8600-01	5.5600-09	3.1000-09	.0000+00	1.4400-02	8.6600-09
-5.4	9.8900-01	4.6000-09	2.0400-09	.0000+00	1.1500-02	6.6300-09
-5.2	9.9100-01	3.7800-09	1.3300-09	.0000+00	9.1500-03	5.1100-09
-5.0	9.9300-01	3.0900-09	8.6300-10	.0000+00	7.2800-03	3.9500-09
-4.8	9.9400-01	2.5200-09	5.5700-10	.0000+00	5.7900-03	3.0700-09
-4.6	9.9500-01	2.0400-09	3.5900-10	.0000+00	4.6000-03	2.4000-09
-4.4	9.9600-01	1.6500-09	2.3000-10	.0000+00	3.6600-03	1.8800-09
-4.2	9.9700-01	1.3200-09	1.4700-10	.0000+00	2.9100-03	1.4700-09
-4.0	9.9800-01	1.0600-09	9.3700-11	.0000+00	2.3100-03	1.1600-09
-3.8	9.9800-01	8.5200-10	5.9700-11	.0000+00	1.8400-03	9.1200-10
-3.6	9.9900-01	6.8200-10	3.7900-11	.0000+00	1.4600-03	7.2000-10
-3.4	9.9900-01	5.4500-10	2.4100-11	.0000+00	1.1600-03	5.6900-10
-3.2	9.9900-01	4.3500-10	1.5200-11	.0000+00	9.2100-04	4.5000-10
-3.0	9.9900-01	3.4700-10	9.6500-12	.0000+00	7.3100-04	3.5600-10
-2.8	9.9900-01	2.7600-10	6.1100-12	.0000+00	5.8100-04	2.8200-10
-2.6	1.0000+00	2.2000-10	3.8600-12	.0000+00	4.6200-04	2.2400-10
-2.4	1.0000+00	1.7500-10	2.4400-12	.0000+00	3.6700-04	1.7700-10
-2.2	1.0000+00	1.3900-10	1.5400-12	.0000+00	2.9100-04	1.4100-10
-2.0	1.0000+00	1.1100-10	9.7500-13	.0000+00	2.3100-04	1.1200-10
-1.8	1.0000+00	8.8000-11	6.1600-13	.0000+00	1.8400-04	8.8600-11
-1.6	1.0000+00	6.9900-11	3.8900-13	.0000+00	1.4600-04	7.0300-11
-1.4	1.0000+00	5.5600-11	2.4500-13	.0000+00	1.1600-04	5.5800-11
-1.2	1.0000+00	4.4200-11	1.5500-13	.0000+00	9.2100-05	4.4300-11
-1.0	1.0000+00	3.5100-11	9.7800-14	.0000+00	7.3200-05	3.5200-11
-.8	1.0000+00	2.7900-11	6.1700-14	.0000+00	5.8100-05	2.8000-11
-.6	1.0000+00	2.2200-11	3.9000-14	.0000+00	4.6200-05	2.2200-11
-.4	1.0000+00	1.7600-11	2.4600-14	.0000+00	3.6700-05	1.7600-11
-.2	1.0000+00	1.4000-11	1.5500-14	.0000+00	2.9100-05	1.4000-11
.0	1.0000+00	1.1100-11	9.8300-15	.0000+00	2.3100-05	1.1100-11
.2	1.0000+00	8.8500-12	6.2200-15	.0000+00	1.8400-05	8.8500-12
.4	1.0000+00	7.0400-12	3.9400-15	.0000+00	1.4600-05	7.0400-12
.6	1.0000+00	5.6000-12	2.5000-15	.0000+00	1.1600-05	5.6100-12
.8	1.0000+00	4.4700-12	1.5900-15	.0000+00	9.1600-06	4.4700-12
1.0	1.0000+00	3.5700-12	1.0700-15	.0000+00	7.2500-06	3.5700-12
1.2	1.0000+00	2.8600-12	6.5900-16	.0000+00	5.7300-06	2.8600-12
1.4	1.0000+00	2.3000-12	4.3200-16	.0000+00	4.5200-06	2.3000-12
1.6	1.0000+00	1.8700-12	2.8900-16	.0000+00	3.5400-06	1.8700-12
1.8	1.0000+00	1.5400-12	2.0100-16	.0000+00	2.7600-06	1.5400-12
2.0	1.0000+00	1.2900-12	1.4700-16	.0000+00	2.1700-06	1.2900-12
2.2	1.0000+00	1.1100-12	1.1800-16	.0000+00	1.6100-06	1.1200-12

T= 3300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0359+00	4.3309+00	5.3668+00	4.7438+01	-5.9026+00	1.0359+00
-6.8	1.0286+00	4.0817+00	5.1103+00	4.6713+01	-5.7056+00	1.0286+00
-6.6	1.0228+00	3.8824+00	4.9052+00	4.6042+01	-5.5081+00	1.0228+00
-6.4	1.0182+00	3.7232+00	4.7414+00	4.5413+01	-5.3101+00	1.0182+00
-6.2	1.0145+00	3.5962+00	4.6107+00	4.4818+01	-5.1117+00	1.0145+00
-6.0	1.0115+00	3.4950+00	4.5065+00	4.4250+01	-4.9129+00	1.0115+00
-5.8	1.0091+00	3.4144+00	4.4236+00	4.3704+01	-4.7139+00	1.0091+00
-5.6	1.0073+00	3.3502+00	4.3575+00	4.3176+01	-4.5147+00	1.0073+00
-5.4	1.0058+00	3.2992+00	4.3050+00	4.2661+01	-4.3154+00	1.0058+00
-5.2	1.0046+00	3.2586+00	4.2632+00	4.2158+01	-4.1159+00	1.0046+00
-5.0	1.0037+00	3.2263+00	4.2299+00	4.1663+01	-3.9163+00	1.0037+00
-4.8	1.0029+00	3.2006+00	4.2035+00	4.1175+01	-3.7166+00	1.0029+00
-4.6	1.0023+00	3.1802+00	4.1825+00	4.0693+01	-3.5169+00	1.0023+00
-4.4	1.0018+00	3.1640+00	4.1658+00	4.0215+01	-3.3171+00	1.0018+00
-4.2	1.0015+00	3.1511+00	4.1526+00	3.9741+01	-3.1173+00	1.0015+00
-4.0	1.0012+00	3.1409+00	4.1420+00	3.9270+01	-2.9174+00	1.0012+00
-3.8	1.0009+00	3.1327+00	4.1337+00	3.8801+01	-2.7175+00	1.0009+00
-3.6	1.0007+00	3.1263+00	4.1270+00	3.8333+01	-2.5176+00	1.0007+00
-3.4	1.0006+00	3.1211+00	4.1217+00	3.7867+01	-2.3176+00	1.0006+00
-3.2	1.0005+00	3.1171+00	4.1175+00	3.7403+01	-2.1177+00	1.0005+00
-3.0	1.0004+00	3.1138+00	4.1142+00	3.6939+01	-1.9177+00	1.0004+00
-2.8	1.0003+00	3.1112+00	4.1115+00	3.6475+01	-1.7178+00	1.0003+00
-2.6	1.0002+00	3.1092+00	4.1094+00	3.6013+01	-1.5178+00	1.0002+00
-2.4	1.0002+00	3.1076+00	4.1078+00	3.5550+01	-1.3178+00	1.0002+00
-2.2	1.0002+00	3.1063+00	4.1064+00	3.5089+01	-1.1178+00	1.0001+00
-2.0	1.0001+00	3.1053+00	4.1054+00	3.4627+01	-9.1783-01	1.0001+00
-1.8	1.0001+00	3.1044+00	4.1046+00	3.4166+01	-7.1784-01	1.0001+00
-1.6	1.0001+00	3.1038+00	4.1039+00	3.3704+01	-5.1784-01	1.0001+00
-1.4	1.0001+00	3.1033+00	4.1034+00	3.3243+01	-3.1784-01	1.0001+00
-1.2	1.0001+00	3.1029+00	4.1030+00	3.2782+01	-1.1783-01	1.0000+00
-1.0	1.0002+00	3.1026+00	4.1027+00	3.2321+01	8.2193-02	1.0000+00
-.8	1.0003+00	3.1023+00	4.1026+00	3.1861+01	2.8223-01	1.0000+00
-.6	1.0004+00	3.1021+00	4.1025+00	3.1400+01	4.8228-01	1.0000+00
-.4	1.0006+00	3.1020+00	4.1026+00	3.0939+01	6.8238-01	1.0000+00
-.2	1.0009+00	3.1018+00	4.1028+00	3.0478+01	8.8252-01	1.0000+00
.0	1.0015+00	3.1018+00	4.1033+00	3.0017+01	1.0828+00	1.0000+00
.2	1.0023+00	3.1017+00	4.1041+00	2.9555+01	1.2831+00	1.0000+00
.4	1.0037+00	3.1018+00	4.1055+00	2.9093+01	1.4837+00	1.0000+00
.6	1.0059+00	3.1018+00	4.1077+00	2.8631+01	1.6847+00	1.0000+00
.8	1.0093+00	3.1020+00	4.1113+00	2.8167+01	1.8861+00	1.0000+00
1.0	1.0147+00	3.1022+00	4.1170+00	2.7701+01	2.0885+00	1.0000+00
1.2	1.0233+00	3.1027+00	4.1260+00	2.7233+01	2.2921+00	1.0000+00
1.4	1.0370+00	3.1034+00	4.1404+00	2.6759+01	2.4979+00	1.0000+00
1.6	1.0586+00	3.1046+00	4.1632+00	2.6278+01	2.7068+00	1.0000+00
1.8	1.0929+00	3.1065+00	4.1994+00	2.5785+01	2.9207+00	1.0000+00
2.0	1.1472+00	3.1095+00	4.2567+00	2.5274+01	3.1417+00	1.0000+00
2.2	1.2332+00	3.1143+00	4.3476+00	2.4732+01	3.3732+00	1.0000+00

T= 3400

LOG D	N2	N2+	N+	N++	N	E
-7.0	8.8900-01	3.2300-08	1.3700-07	.0000+00	1.1100-01	1.6900-07
-6.8	9.1000-01	2.8700-08	9.6000-08	.0000+00	8.9700-02	1.2500-07
-6.6	9.2800-01	2.5700-08	6.6700-08	.0000+00	7.2300-02	9.2000-08
-6.4	9.4200-01	2.2000-08	4.6000-08	.0000+00	5.8000-02	6.8000-08
-6.2	9.5300-01	1.9000-08	3.1500-08	.0000+00	4.6500-02	5.0600-08
-6.0	9.6300-01	1.6300-08	2.1400-08	.0000+00	3.7200-02	3.7700-08
-5.8	9.7000-01	1.3900-08	1.4400-08	.0000+00	2.9700-02	2.8300-08
-5.6	9.7600-01	1.1700-08	9.6600-09	.0000+00	2.3700-02	2.1400-08
-5.4	9.8100-01	9.8100-09	6.4200-09	.0000+00	1.8900-02	1.6200-08
-5.2	9.8500-01	8.1500-09	4.2300-09	.0000+00	1.5100-02	1.2400-08
-5.0	9.8800-01	6.7300-09	2.7800-09	.0000+00	1.2000-02	9.5100-09
-4.8	9.9000-01	5.5300-09	1.8100-09	.0000+00	9.5500-03	7.3400-09
-4.6	9.9200-01	4.5100-09	1.1700-09	.0000+00	7.6000-03	5.6900-09
-4.4	9.9400-01	3.6700-09	7.5700-10	.0000+00	6.0400-03	4.4200-09
-4.2	9.9500-01	2.9700-09	4.8600-10	.0000+00	4.8000-03	3.4600-09
-4.0	9.9600-01	2.4000-09	3.1200-10	.0000+00	3.8200-03	2.7100-09
-3.8	9.9700-01	1.9300-09	1.9900-10	.0000+00	3.0300-03	2.1300-09
-3.6	9.9800-01	1.5500-09	1.2700-10	.0000+00	2.4100-03	1.6700-09
-3.4	9.9800-01	1.2400-09	8.0700-11	.0000+00	1.9200-03	1.3200-09
-3.2	9.9800-01	9.9000-10	5.1200-11	.0000+00	1.5200-03	1.0400-09
-3.0	9.9900-01	7.9100-10	3.2500-11	.0000+00	1.2100-03	8.2300-10
-2.8	9.9900-01	6.3100-10	2.0600-11	.0000+00	9.6100-04	6.5100-10
-2.6	9.9900-01	5.0300-10	1.3000-11	.0000+00	7.6400-04	5.1600-10
-2.4	9.9900-01	4.0000-10	8.2500-12	.0000+00	6.0700-04	4.0900-10
-2.2	1.0000+00	3.1900-10	5.2200-12	.0000+00	4.8200-04	3.2400-10
-2.0	1.0000+00	2.5400-10	3.3000-12	.0000+00	3.8300-04	2.5700-10
-1.8	1.0000+00	2.0200-10	2.0800-12	.0000+00	3.0400-04	2.0400-10
-1.6	1.0000+00	1.6000-10	1.3200-12	.0000+00	2.4200-04	1.6200-10
-1.4	1.0000+00	1.2800-10	8.3100-13	.0000+00	1.9200-04	1.2800-10
-1.2	1.0000+00	1.0100-10	5.2500-13	.0000+00	1.5200-04	1.0200-10
-1.0	1.0000+00	8.0600-11	3.3100-13	.0000+00	1.2100-04	8.0900-11
-.8	1.0000+00	6.4000-11	2.0900-13	.0000+00	9.6200-05	6.4300-11
-.6	1.0000+00	5.0900-11	1.3200-13	.0000+00	7.6400-05	5.1000-11
-.4	1.0000+00	4.0500-11	8.3400-14	.0000+00	6.0700-05	4.0500-11
-.2	1.0000+00	3.2100-11	5.2700-14	.0000+00	4.8200-05	3.2200-11
.0	1.0000+00	2.5600-11	3.3300-14	.0000+00	3.8300-05	2.5600-11
.2	1.0000+00	2.0300-11	2.1100-14	.0000+00	3.0400-05	2.0300-11
.4	1.0000+00	1.6200-11	1.3300-14	.0000+00	2.4100-05	1.6200-11
.6	1.0000+00	1.2900-11	8.4600-15	.0000+00	1.9100-05	1.2900-11
.8	1.0000+00	1.0300-11	5.3900-15	.0000+00	1.5200-05	1.0300-11
1.0	1.0000+00	8.1900-12	3.4500-15	.0000+00	1.2000-05	8.2000-12
1.2	1.0000+00	6.5600-12	2.2300-15	.0000+00	9.4900-06	6.5700-12
1.4	1.0000+00	5.2900-12	1.4600-15	.0000+00	7.4800-06	5.2900-12
1.6	1.0000+00	4.2900-12	9.7400-16	.0000+00	5.8700-06	4.2900-12
1.8	1.0000+00	3.5300-12	6.7300-16	.0000+00	4.5700-06	3.5300-12
2.0	1.0000+00	2.9600-12	4.9100-16	.0000+00	3.5200-06	2.9600-12
2.2	1.0000+00	2.5600-12	3.8900-16	.0000+00	2.6600-06	2.5600-12

T= 3400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0587+00	5.0638+00	6.1225+00	4.8310+01	-5.8801+00	1.0587+00
-6.8	1.0470+00	4.6723+00	5.7192+00	4.7433+01	-5.6850+00	1.0470+00
-6.6	1.0375+00	4.3577+00	5.3952+00	4.6639+01	-5.4889+00	1.0375+00
-6.4	1.0299+00	4.1056+00	5.1355+00	4.5911+01	-5.2921+00	1.0299+00
-6.2	1.0238+00	3.9039+00	4.9277+00	4.5236+01	-5.0947+00	1.0238+00
-6.0	1.0190+00	3.7428+00	4.7618+00	4.4605+01	-4.8968+00	1.0190+00
-5.8	1.0151+00	3.6143+00	4.6293+00	4.4008+01	-4.6984+00	1.0151+00
-5.6	1.0120+00	3.5118+00	4.5238+00	4.3439+01	-4.4997+00	1.0120+00
-5.4	1.0096+00	3.4302+00	4.4397+00	4.2892+01	-4.3008+00	1.0096+00
-5.2	1.0076+00	3.3652+00	4.3728+00	4.2362+01	-4.1016+00	1.0076+00
-5.0	1.0060+00	3.3135+00	4.3195+00	4.1847+01	-3.9023+00	1.0060+00
-4.8	1.0048+00	3.2723+00	4.2771+00	4.1343+01	-3.7028+00	1.0048+00
-4.6	1.0038+00	3.2396+00	4.2434+00	4.0848+01	-3.5033+00	1.0038+00
-4.4	1.0030+00	3.2136+00	4.2167+00	4.0360+01	-3.3036+00	1.0030+00
-4.2	1.0024+00	3.1930+00	4.1954+00	3.9877+01	-3.1039+00	1.0024+00
-4.0	1.0019+00	3.1765+00	4.1784+00	3.9399+01	-2.9041+00	1.0019+00
-3.8	1.0015+00	3.1635+00	4.1650+00	3.8925+01	-2.7043+00	1.0015+00
-3.6	1.0012+00	3.1531+00	4.1543+00	3.8453+01	-2.5044+00	1.0012+00
-3.4	1.0010+00	3.1449+00	4.1458+00	3.7984+01	-2.3045+00	1.0010+00
-3.2	1.0008+00	3.1383+00	4.1391+00	3.7517+01	-2.1046+00	1.0008+00
-3.0	1.0006+00	3.1331+00	4.1337+00	3.7051+01	-1.9047+00	1.0006+00
-2.8	1.0005+00	3.1290+00	4.1294+00	3.6586+01	-1.7047+00	1.0005+00
-2.6	1.0004+00	3.1257+00	4.1261+00	3.6122+01	-1.5048+00	1.0004+00
-2.4	1.0003+00	3.1231+00	4.1234+00	3.5658+01	-1.3048+00	1.0003+00
-2.2	1.0003+00	3.1210+00	4.1213+00	3.5196+01	-1.1048+00	1.0002+00
-2.0	1.0002+00	3.1194+00	4.1196+00	3.4733+01	-9.0483-01	1.0002+00
-1.8	1.0002+00	3.1180+00	4.1182+00	3.4271+01	-7.0485-01	1.0002+00
-1.6	1.0002+00	3.1170+00	4.1172+00	3.3810+01	-5.0485-01	1.0001+00
-1.4	1.0002+00	3.1162+00	4.1163+00	3.3348+01	-3.0485-01	1.0001+00
-1.2	1.0002+00	3.1155+00	4.1157+00	3.2887+01	-1.0485-01	1.0001+00
-1.0	1.0002+00	3.1150+00	4.1152+00	3.2426+01	9.5169-02	1.0001+00
-.8	1.0003+00	3.1146+00	4.1149+00	3.1965+01	2.9520-01	1.0000+00
-.6	1.0004+00	3.1143+00	4.1147+00	3.1504+01	4.9526-01	1.0000+00
-.4	1.0006+00	3.1140+00	4.1147+00	3.1043+01	6.9535-01	1.0000+00
-.2	1.0010+00	3.1139+00	4.1148+00	3.0582+01	8.9549-01	1.0000+00
.0	1.0015+00	3.1137+00	4.1152+00	3.0121+01	1.0957+00	1.0000+00
.2	1.0023+00	3.1136+00	4.1160+00	2.9659+01	1.2961+00	1.0000+00
.4	1.0037+00	3.1136+00	4.1173+00	2.9197+01	1.4967+00	1.0000+00
.6	1.0059+00	3.1137+00	4.1195+00	2.8735+01	1.6976+00	1.0000+00
.8	1.0093+00	3.1138+00	4.1231+00	2.8271+01	1.8991+00	1.0000+00
1.0	1.0147+00	3.1141+00	4.1288+00	2.7805+01	2.1014+00	1.0000+00
1.2	1.0233+00	3.1146+00	4.1378+00	2.7337+01	2.3051+00	1.0000+00
1.4	1.0369+00	3.1153+00	4.1522+00	2.6863+01	2.5108+00	1.0000+00
1.6	1.0585+00	3.1166+00	4.1751+00	2.6382+01	2.7198+00	1.0000+00
1.8	1.0927+00	3.1186+00	4.2113+00	2.5890+01	2.9336+00	1.0000+00
2.0	1.1469+00	3.1219+00	4.2688+00	2.5378+01	3.1546+00	1.0000+00
2.2	1.2328+00	3.1270+00	4.3599+00	2.4837+01	3.3860+00	1.0000+00

T= 3500

LOG D	N2	N2+	N+	N++	N	E
-7.0	8.3000-01	5.7400-08	3.5700-07	.0000+00	1.7000-01	4.1500-07
-6.8	8.6200-01	5.1900-08	2.5400-07	.0000+00	1.3800-01	3.0600-07
-6.6	8.8800-01	4.6400-08	1.7900-07	.0000+00	1.1200-01	2.2500-07
-6.4	9.0900-01	4.1100-08	1.2500-07	.0000+00	9.0800-02	1.6600-07
-6.2	9.2700-01	3.6100-08	8.6800-08	.0000+00	7.3200-02	1.2300-07
-6.0	9.4100-01	3.1400-08	5.9800-08	.0000+00	5.8800-02	9.1200-08
-5.8	9.5300-01	2.7100-08	4.0800-08	.0000+00	4.7100-02	6.7900-08
-5.6	9.6200-01	2.3200-08	2.7700-08	.0000+00	3.7700-02	5.0800-08
-5.4	9.7000-01	1.9700-08	1.8600-08	.0000+00	3.0100-02	3.8300-08
-5.2	9.7600-01	1.6500-08	1.2400-08	.0000+00	2.4100-02	2.9000-08
-5.0	9.8100-01	1.3800-08	8.2200-09	.0000+00	1.9200-02	2.2000-08
-4.8	9.8500-01	1.1500-08	5.4100-09	.0000+00	1.5300-02	1.6900-08
-4.6	9.8800-01	9.4400-09	3.5400-09	.0000+00	1.2200-02	1.3000-08
-4.4	9.9000-01	7.7300-09	2.3000-09	.0000+00	9.6800-03	1.0000-08
-4.2	9.9200-01	6.3000-09	1.4900-09	.0000+00	7.7000-03	7.7900-09
-4.0	9.9400-01	5.1100-09	9.5900-10	.0000+00	6.1200-03	6.0700-09
-3.8	9.9500-01	4.1300-09	6.1600-10	.0000+00	4.8700-03	4.7500-09
-3.6	9.9600-01	3.3300-09	3.9400-10	.0000+00	3.8700-03	3.7200-09
-3.4	9.9700-01	2.6800-09	2.5100-10	.0000+00	3.0800-03	2.9300-09
-3.2	9.9800-01	2.1500-09	1.6000-10	.0000+00	2.4500-03	2.3100-09
-3.0	9.9800-01	1.7200-09	1.0200-10	.0000+00	1.9400-03	1.8200-09
-2.8	9.9800-01	1.3700-09	6.4600-11	.0000+00	1.5400-03	1.4400-09
-2.6	9.9900-01	1.1000-09	4.1000-11	.0000+00	1.2300-03	1.1400-09
-2.4	9.9900-01	8.7400-10	2.6000-11	.0000+00	9.7400-04	9.0000-10
-2.2	9.9900-01	6.9600-10	1.6400-11	.0000+00	7.7400-04	7.1300-10
-2.0	9.9900-01	5.5400-10	1.0400-11	.0000+00	6.1500-04	5.6500-10
-1.8	1.0000+00	4.4100-10	6.5700-12	.0000+00	4.8900-04	4.4800-10
-1.6	1.0000+00	3.5100-10	4.1500-12	.0000+00	3.8800-04	3.5500-10
-1.4	1.0000+00	2.7900-10	2.6200-12	.0000+00	3.0800-04	2.8200-10
-1.2	1.0000+00	2.2700-10	1.6600-12	.0000+00	2.4500-04	2.2400-10
-1.0	1.0000+00	1.7700-10	1.0500-12	.0000+00	1.9500-04	1.7800-10
-.8	1.0000+00	1.4000-10	6.6100-13	.0000+00	1.5500-04	1.4100-10
-.6	1.0000+00	1.1200-10	4.1700-13	.0000+00	1.2300-04	1.1200-10
-.4	1.0000+00	8.8600-11	2.6300-13	.0000+00	9.7500-05	8.8900-11
-.2	1.0000+00	7.0500-11	1.6600-13	.0000+00	7.7400-05	7.0600-11
.0	1.0000+00	5.6000-11	1.0500-13	.0000+00	6.1500-05	5.6100-11
.2	1.0000+00	4.4500-11	6.6500-14	.0000+00	4.8800-05	4.4600-11
.4	1.0000+00	3.5400-11	4.2100-14	.0000+00	3.8700-05	3.5500-11
.6	1.0000+00	2.8200-11	2.6700-14	.0000+00	3.0700-05	2.8200-11
.8	1.0000+00	2.2500-11	1.7000-14	.0000+00	2.4400-05	2.2500-11
1.0	1.0000+00	1.8000-11	1.0900-14	.0000+00	1.9300-05	1.8000-11
1.2	1.0000+00	1.4400-11	7.0200-15	.0000+00	1.5200-05	1.4400-11
1.4	1.0000+00	1.1600-11	4.5900-15	.0000+00	1.2000-05	1.1600-11
1.6	1.0000+00	9.4100-12	3.0600-15	.0000+00	9.4300-06	9.4100-12
1.8	1.0000+00	7.7300-12	2.1000-15	.0000+00	7.3400-06	7.7300-12
2.0	1.0000+00	6.4800-12	1.5200-15	.0000+00	5.6500-06	6.4800-12
2.2	1.0000+00	5.6100-12	1.2000-15	.0000+00	4.2700-06	5.6100-12



T= 3500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.0927+00	6.1118+00	7.2045+00	4.9519+01	-5.8538+00	1.0927+00
-6.8	1.0744+00	5.5210+00	6.5953+00	4.8430+01	-5.6612+00	1.0744+00
-6.6	1.0595+00	5.0430+00	6.1025+00	4.7460+01	-5.4672+00	1.0595+00
-6.4	1.0476+00	4.6578+00	5.7054+00	4.6590+01	-5.2721+00	1.0476+00
-6.2	1.0380+00	4.3483+00	5.3863+00	4.5801+01	-5.0761+00	1.0380+00
-6.0	1.0303+00	4.1002+00	5.1305+00	4.5076+01	-4.8794+00	1.0303+00
-5.8	1.0241+00	3.9017+00	4.9258+00	4.4405+01	-4.6820+00	1.0241+00
-5.6	1.0192+00	3.7431+00	4.7623+00	4.3776+01	-4.4841+00	1.0192+00
-5.4	1.0153+00	3.6166+00	4.6319+00	4.3181+01	-4.2857+00	1.0153+00
-5.2	1.0122+00	3.5157+00	4.5279+00	4.2613+01	-4.0871+00	1.0122+00
-5.0	1.0097+00	3.4353+00	4.4450+00	4.2067+01	-3.8881+00	1.0097+00
-4.8	1.0077+00	3.3714+00	4.3791+00	4.1539+01	-3.6890+00	1.0077+00
-4.6	1.0061+00	3.3205+00	4.3266+00	4.1024+01	-3.4897+00	1.0061+00
-4.4	1.0049+00	3.2800+00	4.2848+00	4.0521+01	-3.2902+00	1.0049+00
-4.2	1.0039+00	3.2478+00	4.2516+00	4.0026+01	-3.0907+00	1.0039+00
-4.0	1.0031+00	3.2222+00	4.2252+00	3.9538+01	-2.8910+00	1.0031+00
-3.8	1.0024+00	3.2018+00	4.2043+00	3.9056+01	-2.6913+00	1.0024+00
-3.6	1.0019+00	3.1856+00	4.1876+00	3.8578+01	-2.4915+00	1.0019+00
-3.4	1.0015+00	3.1728+00	4.1743+00	3.8104+01	-2.2917+00	1.0015+00
-3.2	1.0012+00	3.1626+00	4.1638+00	3.7633+01	-2.0918+00	1.0012+00
-3.0	1.0010+00	3.1545+00	4.1554+00	3.7164+01	-1.8919+00	1.0010+00
-2.8	1.0008+00	3.1480+00	4.1488+00	3.6696+01	-1.6920+00	1.0008+00
-2.6	1.0006+00	3.1429+00	4.1435+00	3.6230+01	-1.4921+00	1.0006+00
-2.4	1.0005+00	3.1388+00	4.1393+00	3.5765+01	-1.2921+00	1.0005+00
-2.2	1.0004+00	3.1356+00	4.1360+00	3.5302+01	-1.0922+00	1.0004+00
-2.0	1.0003+00	3.1330+00	4.1333+00	3.4838+01	-8.9219-01	1.0003+00
-1.8	1.0003+00	3.1310+00	4.1312+00	3.4376+01	-6.9222-01	1.0002+00
-1.6	1.0002+00	3.1294+00	4.1296+00	3.3913+01	-4.9223-01	1.0002+00
-1.4	1.0002+00	3.1281+00	4.1283+00	3.3451+01	-2.9224-01	1.0002+00
-1.2	1.0002+00	3.1271+00	4.1273+00	3.2990+01	-9.2239-02	1.0001+00
-1.0	1.0002+00	3.1262+00	4.1265+00	3.2528+01	1.0777-01	1.0001+00
-.8	1.0003+00	3.1256+00	4.1259+00	3.2067+01	3.0780-01	1.0001+00
-.6	1.0004+00	3.1251+00	4.1255+00	3.1606+01	5.0785-01	1.0001+00
-.4	1.0006+00	3.1247+00	4.1253+00	3.1145+01	7.0794-01	1.0000+00
-.2	1.0010+00	3.1244+00	4.1254+00	3.0684+01	9.0809-01	1.0000+00
.0	1.0015+00	3.1242+00	4.1257+00	3.0222+01	1.1083+00	1.0000+00
.2	1.0023+00	3.1240+00	4.1264+00	2.9761+01	1.3087+00	1.0000+00
.4	1.0037+00	3.1240+00	4.1277+00	2.9299+01	1.5093+00	1.0000+00
.6	1.0059+00	3.1240+00	4.1298+00	2.8836+01	1.7102+00	1.0000+00
.8	1.0093+00	3.1241+00	4.1334+00	2.8372+01	1.9117+00	1.0000+00
1.0	1.0147+00	3.1244+00	4.1390+00	2.7907+01	2.1140+00	1.0000+00
1.2	1.0233+00	3.1248+00	4.1481+00	2.7438+01	2.3176+00	1.0000+00
1.4	1.0368+00	3.1257+00	4.1625+00	2.6965+01	2.5234+00	1.0000+00
1.6	1.0584+00	3.1270+00	4.1854+00	2.6484+01	2.7323+00	1.0000+00
1.8	1.0925+00	3.1292+00	4.2217+00	2.5991+01	2.9461+00	1.0000+00
2.0	1.1467+00	3.1326+00	4.2793+00	2.5480+01	3.1671+00	1.0000+00
2.2	1.2324+00	3.1381+00	4.3705+00	2.4939+01	3.3984+00	1.0000+00

T= 3600

LOG D	N2	N2+	N+	N++	N	E
-7.0	7.5300-01	9.5400-08	8.6100-07	.0000+00	2.4700-01	9.5700-07
-6.8	7.9600-01	8.8000-08	6.2100-07	.0000+00	2.0400-01	7.0900-07
-6.6	8.3200-01	8.0200-08	4.4400-07	.0000+00	1.6800-01	5.2400-07
-6.4	8.6300-01	7.2300-08	3.1500-07	.0000+00	1.3700-01	3.8700-07
-6.2	8.8900-01	6.4500-08	2.2100-07	.0000+00	1.1100-01	2.8600-07
-6.0	9.1000-01	5.7000-08	1.5400-07	.0000+00	8.9800-02	2.1100-07
-5.8	9.2800-01	4.9900-08	1.0700-07	.0000+00	7.2300-02	1.5700-07
-5.6	9.4200-01	4.3300-08	7.3300-08	.0000+00	5.8100-02	1.1700-07
-5.4	9.5300-01	3.7700-08	4.9900-08	.0000+00	4.6600-02	8.7100-08
-5.2	9.6300-01	3.1700-08	3.3700-08	.0000+00	3.7300-02	6.5400-08
-5.0	9.7000-01	2.6800-08	2.2600-08	.0000+00	2.9800-02	4.9400-08
-4.8	9.7600-01	2.2500-08	1.5000-08	.0000+00	2.3800-02	3.7500-08
-4.6	9.8100-01	1.8700-08	9.9200-09	.0000+00	1.8900-02	2.8600-08
-4.4	9.8500-01	1.5500-08	6.5100-09	.0000+00	1.5100-02	2.2000-08
-4.2	9.8800-01	1.2700-08	4.2400-09	.0000+00	1.2000-02	1.7000-08
-4.0	9.9000-01	1.0400-08	2.7500-09	.0000+00	9.5600-03	1.3100-08
-3.8	9.9200-01	8.4500-09	1.7800-09	.0000+00	7.6100-03	1.0200-08
-3.6	9.9400-01	6.8400-09	1.1400-09	.0000+00	6.0500-03	7.9800-09
-3.4	9.9500-01	5.5700-09	7.3700-10	.0000+00	4.8100-03	6.2500-09
-3.2	9.9600-01	4.4400-09	4.6800-10	.0000+00	3.8200-03	4.9100-09
-3.0	9.9700-01	3.5700-09	2.9800-10	.0000+00	3.0400-03	3.8600-09
-2.8	9.9800-01	2.8600-09	1.9000-10	.0000+00	2.4100-03	3.0500-09
-2.6	9.9800-01	2.2800-09	1.2100-10	.0000+00	1.9200-03	2.4100-09
-2.4	9.9800-01	1.8200-09	7.6500-11	.0000+00	1.5200-03	1.9000-09
-2.2	9.9900-01	1.4600-09	4.8500-11	.0000+00	1.2100-03	1.5000-09
-2.0	9.9900-01	1.1600-09	3.0700-11	.0000+00	9.6200-04	1.1900-09
-1.8	9.9900-01	9.2400-10	1.9400-11	.0000+00	7.6500-04	9.4400-10
-1.6	9.9900-01	7.3600-10	1.2300-11	.0000+00	6.0700-04	7.4600-10
-1.4	1.0000+00	5.8600-10	7.7600-12	.0000+00	4.8200-04	5.9300-10
-1.2	1.0000+00	4.6600-10	4.9000-12	.0000+00	3.8300-04	4.7100-10
-1.0	1.0000+00	3.7000-10	3.1000-12	.0000+00	3.0400-04	3.7400-10
-.8	1.0000+00	2.9500-10	1.9600-12	.0000+00	2.4200-04	2.9700-10
-.6	1.0000+00	2.3400-10	1.2400-12	.0000+00	1.9200-04	2.3500-10
-.4	1.0000+00	1.8600-10	7.8100-13	.0000+00	1.5300-04	1.8700-10
-.2	1.0000+00	1.4800-10	4.9300-13	.0000+00	1.2100-04	1.4800-10
.0	1.0000+00	1.1800-10	3.1200-13	.0000+00	9.6200-05	1.1800-10
.2	1.0000+00	9.3600-11	1.9700-13	.0000+00	7.6400-05	9.3800-11
.4	1.0000+00	7.4400-11	1.2500-13	.0000+00	6.0600-05	7.4600-11
.6	1.0000+00	5.9300-11	7.9200-14	.0000+00	4.8100-05	5.9300-11
.8	1.0000+00	4.7200-11	5.0400-14	.0000+00	3.8100-05	4.7300-11
1.0	1.0000+00	3.7700-11	3.2200-14	.0000+00	3.0200-05	3.7800-11
1.2	1.0000+00	3.0200-11	2.0800-14	.0000+00	2.3900-05	3.0300-11
1.4	1.0000+00	2.4300-11	1.3500-14	.0000+00	1.8800-05	2.4400-11
1.6	1.0000+00	1.9800-11	9.0100-15	.0000+00	1.4800-05	1.9800-11
1.8	1.0000+00	1.6200-11	6.1800-15	.0000+00	1.1500-05	1.6200-11
2.0	1.0000+00	1.3600-11	4.4500-15	.0000+00	8.8500-06	1.3600-11
2.2	1.0000+00	1.1800-11	3.4600-15	.0000+00	6.6900-06	1.1800-11

T= 3600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.1411+00	7.5568+00	8.6980+00	5.1156+01	-5.8228+00	1.1411+00
-6.8	1.1139+00	6.7024+00	7.8163+00	4.9782+01	-5.6333+00	1.1139+00
-6.6	1.0916+00	6.0038+00	7.0954+00	4.8576+01	-5.4420+00	1.0916+00
-6.4	1.0735+00	5.4361+00	6.5096+00	4.7510+01	-5.2493+00	1.0735+00
-6.2	1.0588+00	4.9770+00	6.0358+00	4.6560+01	-5.0553+00	1.0588+00
-6.0	1.0470+00	4.6070+00	5.6540+00	4.5705+01	-4.8601+00	1.0470+00
-5.8	1.0375+00	4.3098+00	5.3473+00	4.4928+01	-4.6641+00	1.0375+00
-5.6	1.0299+00	4.0715+00	5.1015+00	4.4214+01	-4.4673+00	1.0299+00
-5.4	1.0238+00	3.8810+00	4.9048+00	4.3550+01	-4.2699+00	1.0238+00
-5.2	1.0190+00	3.7287+00	4.7477+00	4.2928+01	-4.0719+00	1.0190+00
-5.0	1.0151+00	3.6073+00	4.6224+00	4.2338+01	-3.8736+00	1.0151+00
-4.8	1.0120+00	3.5104+00	4.5224+00	4.1774+01	-3.6749+00	1.0120+00
-4.6	1.0096+00	3.4333+00	4.4429+00	4.1232+01	-3.4760+00	1.0096+00
-4.4	1.0076+00	3.3719+00	4.3795+00	4.0706+01	-3.2768+00	1.0076+00
-4.2	1.0060+00	3.3230+00	4.3291+00	4.0193+01	-3.0775+00	1.0060+00
-4.0	1.0048+00	3.2842+00	4.2890+00	3.9691+01	-2.8780+00	1.0048+00
-3.8	1.0038+00	3.2533+00	4.2571+00	3.9198+01	-2.6784+00	1.0038+00
-3.6	1.0030+00	3.2287+00	4.2317+00	3.8711+01	-2.4788+00	1.0030+00
-3.4	1.0024+00	3.2091+00	4.2116+00	3.8230+01	-2.2791+00	1.0024+00
-3.2	1.0019+00	3.1936+00	4.1955+00	3.7753+01	-2.0793+00	1.0019+00
-3.0	1.0015+00	3.1813+00	4.1828+00	3.7279+01	-1.8794+00	1.0015+00
-2.8	1.0012+00	3.1715+00	4.1727+00	3.6808+01	-1.6796+00	1.0012+00
-2.6	1.0010+00	3.1637+00	4.1647+00	3.6340+01	-1.4797+00	1.0010+00
-2.4	1.0008+00	3.1575+00	4.1583+00	3.5873+01	-1.2798+00	1.0008+00
-2.2	1.0006+00	3.1526+00	4.1532+00	3.5407+01	-1.0798+00	1.0006+00
-2.0	1.0005+00	3.1487+00	4.1492+00	3.4942+01	-8.7988-01	1.0005+00
-1.8	1.0004+00	3.1456+00	4.1460+00	3.4478+01	-6.7992-01	1.0004+00
-1.6	1.0003+00	3.1431+00	4.1435+00	3.4015+01	-4.7995-01	1.0003+00
-1.4	1.0003+00	3.1412+00	4.1415+00	3.3553+01	-2.7997-01	1.0002+00
-1.2	1.0003+00	3.1396+00	4.1399+00	3.3090+01	-7.9974-02	1.0002+00
-1.0	1.0003+00	3.1384+00	4.1387+00	3.2628+01	1.2003-01	1.0002+00
-.8	1.0004+00	3.1374+00	4.1378+00	3.2167+01	3.2006-01	1.0001+00
-.6	1.0005+00	3.1366+00	4.1371+00	3.1705+01	5.2010-01	1.0001+00
-.4	1.0007+00	3.1360+00	4.1367+00	3.1244+01	7.2019-01	1.0001+00
-.2	1.0010+00	3.1356+00	4.1365+00	3.0783+01	9.2033-01	1.0001+00
.0	1.0015+00	3.1352+00	4.1367+00	3.0321+01	1.1206+00	1.0000+00
.2	1.0024+00	3.1350+00	4.1373+00	2.9860+01	1.3209+00	1.0000+00
.4	1.0037+00	3.1348+00	4.1385+00	2.9397+01	1.5215+00	1.0000+00
.6	1.0059+00	3.1347+00	4.1406+00	2.8935+01	1.7224+00	1.0000+00
.8	1.0093+00	3.1348+00	4.1441+00	2.8471+01	1.9239+00	1.0000+00
1.0	1.0147+00	3.1351+00	4.1497+00	2.8005+01	2.1262+00	1.0000+00
1.2	1.0232+00	3.1356+00	4.1588+00	2.7537+01	2.3299+00	1.0000+00
1.4	1.0368+00	3.1364+00	4.1732+00	2.7063+01	2.5356+00	1.0000+00
1.6	1.0583+00	3.1378+00	4.1961+00	2.6583+01	2.7445+00	1.0000+00
1.8	1.0924+00	3.1401+00	4.2324+00	2.6090+01	2.9583+00	1.0000+00
2.0	1.1464+00	3.1437+00	4.2901+00	2.5579+01	3.1792+00	1.0000+00
2.2	1.2320+00	3.1495+00	4.3815+00	2.5039+01	3.4105+00	1.0000+00

T= 3700

LOG D	N2	N2+	N+	N++	N	E
-7.0	6.5700-01	1.4800-07	1.9300-06	.0000+00	3.4300-01	2.0700-06
-6.8	7.1200-01	1.4000-07	1.4100-06	.0000+00	2.8800-01	1.5500-06
-6.6	7.6000-01	1.3000-07	1.0200-06	.0000+00	2.4000-01	1.1500-06
-6.4	8.0200-01	1.2000-07	7.3600-07	.0000+00	1.9800-01	8.5600-07
-6.2	8.3800-01	1.0900-07	5.2500-07	.0000+00	1.6200-01	6.3400-07
-6.0	8.6800-01	9.7600-08	3.7100-07	.0000+00	1.3200-01	4.6900-07
-5.8	8.9300-01	8.6800-08	2.6000-07	.0000+00	1.0700-01	3.4700-07
-5.6	9.1300-01	7.6400-08	1.8100-07	.0000+00	8.6700-02	2.5700-07
-5.4	9.3000-01	6.6600-08	1.2500-07	.0000+00	6.9800-02	1.9100-07
-5.2	9.4400-01	5.7500-08	8.5100-08	.0000+00	5.6100-02	1.4300-07
-5.0	9.5500-01	4.9300-08	5.7700-08	.0000+00	4.4900-02	1.0700-07
-4.8	9.6400-01	4.1800-08	3.8800-08	.0000+00	3.5900-02	8.0600-08
-4.6	9.7100-01	3.5200-08	2.5900-08	.0000+00	2.8700-02	6.1100-08
-4.4	9.7700-01	2.9400-08	1.7200-08	.0000+00	2.2900-02	4.6600-08
-4.2	9.8200-01	2.4400-08	1.1300-08	.0000+00	1.8300-02	3.5700-08
-4.0	9.8500-01	2.0100-08	7.3900-09	.0000+00	1.4500-02	2.7500-08
-3.8	9.8800-01	1.6500-08	4.8000-09	.0000+00	1.1600-02	2.1300-08
-3.6	9.9100-01	1.3400-08	3.1100-09	.0000+00	9.2100-03	1.6500-08
-3.4	9.9300-01	1.0900-08	2.0000-09	.0000+00	7.3300-03	1.2900-08
-3.2	9.9400-01	8.8000-09	1.2800-09	.0000+00	5.8300-03	1.0100-08
-3.0	9.9500-01	7.0900-09	8.2200-10	.0000+00	4.6300-03	7.9100-09
-2.8	9.9600-01	5.6900-09	5.2400-10	.0000+00	3.6800-03	6.2200-09
-2.6	9.9700-01	4.5700-09	3.3400-10	.0000+00	2.9300-03	4.9000-09
-2.4	9.9800-01	3.6500-09	2.1200-10	.0000+00	2.3300-03	3.8700-09
-2.2	9.9800-01	2.9200-09	1.3500-10	.0000+00	1.8500-03	3.0500-09
-2.0	9.9900-01	2.3300-09	8.5400-11	.0000+00	1.4700-03	2.4200-09
-1.8	9.9900-01	1.8600-09	5.4100-11	.0000+00	1.1700-03	1.9100-09
-1.6	9.9900-01	1.4800-09	3.4200-11	.0000+00	9.2700-04	1.5200-09
-1.4	9.9900-01	1.1800-09	2.1700-11	.0000+00	7.3600-04	1.2000-09
-1.2	9.9900-01	9.3900-10	1.3700-11	.0000+00	5.8500-04	9.5200-10
-1.0	1.0000+00	7.4700-10	8.6500-12	.0000+00	4.6500-04	7.5500-10
-.8	1.0000+00	5.9400-10	5.4700-12	.0000+00	3.6900-04	6.0000-10
-.6	1.0000+00	4.7200-10	3.4500-12	.0000+00	2.9300-04	4.7600-10
-.4	1.0000+00	3.7600-10	2.1800-12	.0000+00	2.3300-04	3.7800-10
-.2	1.0000+00	2.9900-10	1.3800-12	.0000+00	1.8500-04	3.0000-10
.0	1.0000+00	2.3700-10	8.7200-13	.0000+00	1.4700-04	2.3800-10
.2	1.0000+00	1.8900-10	5.5100-13	.0000+00	1.1700-04	1.8900-10
.4	1.0000+00	1.5000-10	3.4900-13	.0000+00	9.2600-05	1.5100-10
.6	1.0000+00	1.2000-10	2.2100-13	.0000+00	7.3400-05	1.2000-10
.8	1.0000+00	9.5400-11	1.4100-13	.0000+00	5.8200-05	9.5500-11
1.0	1.0000+00	7.6200-11	9.0000-14	.0000+00	4.6100-05	7.6300-11
1.2	1.0000+00	6.1100-11	5.8000-14	.0000+00	3.6400-05	6.1100-11
1.4	1.0000+00	4.9200-11	3.7800-14	.0000+00	2.8700-05	4.9200-11
1.6	1.0000+00	3.9900-11	2.5100-14	.0000+00	2.2500-05	3.9900-11
1.8	1.0000+00	3.2800-11	1.7100-14	.0000+00	1.7600-05	3.2800-11
2.0	1.0000+00	2.7500-11	1.2300-14	.0000+00	1.3500-05	2.7500-11
2.2	1.0000+00	2.3800-11	9.4600-15	.0000+00	1.0200-05	2.3800-11

I= 3700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.2070+00	9.4542+00	1.0661+01	5.3285+01	-5.7865+00	1.2070+00
-6.8	1.1684+00	8.2767+00	9.4451+00	5.1561+01	-5.6006+00	1.1684+00
-6.6	1.1363+00	7.2988+00	8.4351+00	5.0053+01	-5.4127+00	1.1363+00
-6.4	1.1099+00	6.4941+00	7.6040+00	4.8731+01	-5.2229+00	1.1099+00
-6.2	1.0884+00	5.8369+00	6.9252+00	4.7568+01	-5.0314+00	1.0884+00
-6.0	1.0709+00	5.3032+00	6.3741+00	4.6537+01	-4.8385+00	1.0709+00
-5.8	1.0567+00	4.8719+00	5.9286+00	4.5616+01	-4.6442+00	1.0567+00
-5.6	1.0453+00	4.5246+00	5.5699+00	4.4785+01	-4.4489+00	1.0453+00
-5.4	1.0362+00	4.2457+00	5.2818+00	4.4027+01	-4.2528+00	1.0362+00
-5.2	1.0288+00	4.0222+00	5.0510+00	4.3328+01	-4.0559+00	1.0288+00
-5.0	1.0230+00	3.8434+00	4.8664+00	4.2677+01	-3.8583+00	1.0230+00
-4.8	1.0183+00	3.7007+00	4.7190+00	4.2064+01	-3.6603+00	1.0183+00
-4.6	1.0146+00	3.5868+00	4.6014+00	4.1482+01	-3.4619+00	1.0146+00
-4.4	1.0116+00	3.4960+00	4.5076+00	4.0925+01	-3.2632+00	1.0116+00
-4.2	1.0092+00	3.4237+00	4.4330+00	4.0387+01	-3.0642+00	1.0092+00
-4.0	1.0073+00	3.3662+00	4.3735+00	3.9865+01	-2.8650+00	1.0073+00
-3.8	1.0058+00	3.3204+00	4.3262+00	3.9356+01	-2.6657+00	1.0058+00
-3.6	1.0046+00	3.2840+00	4.2886+00	3.8856+01	-2.4662+00	1.0046+00
-3.4	1.0037+00	3.2550+00	4.2587+00	3.8365+01	-2.2666+00	1.0037+00
-3.2	1.0029+00	3.2320+00	4.2349+00	3.7880+01	-2.0669+00	1.0029+00
-3.0	1.0023+00	3.2137+00	4.2160+00	3.7400+01	-1.8672+00	1.0023+00
-2.8	1.0018+00	3.1991+00	4.2010+00	3.6924+01	-1.6674+00	1.0018+00
-2.6	1.0015+00	3.1876+00	4.1891+00	3.6451+01	-1.4676+00	1.0015+00
-2.4	1.0012+00	3.1784+00	4.1796+00	3.5981+01	-1.2677+00	1.0012+00
-2.2	1.0009+00	3.1711+00	4.1720+00	3.5513+01	-1.0678+00	1.0009+00
-2.0	1.0007+00	3.1653+00	4.1661+00	3.5046+01	-8.6787-01	1.0007+00
-1.8	1.0006+00	3.1607+00	4.1613+00	3.4580+01	-6.6794-01	1.0006+00
-1.6	1.0005+00	3.1570+00	4.1575+00	3.4116+01	-4.6798-01	1.0005+00
-1.4	1.0004+00	3.1541+00	4.1546+00	3.3652+01	-2.6801-01	1.0004+00
-1.2	1.0004+00	3.1518+00	4.1522+00	3.3189+01	-6.8031-02	1.0003+00
-1.0	1.0004+00	3.1500+00	4.1504+00	3.2727+01	1.3197-01	1.0002+00
-.8	1.0004+00	3.1485+00	4.1490+00	3.2265+01	3.3198-01	1.0002+00
-.6	1.0005+00	3.1474+00	4.1479+00	3.1803+01	5.3202-01	1.0001+00
-.4	1.0007+00	3.1465+00	4.1472+00	3.1341+01	7.3210-01	1.0001+00
-.2	1.0010+00	3.1458+00	4.1468+00	3.0879+01	9.3224-01	1.0001+00
.0	1.0015+00	3.1452+00	4.1468+00	3.0418+01	1.1325+00	1.0001+00
.2	1.0024+00	3.1448+00	4.1472+00	2.9956+01	1.3328+00	1.0001+00
.4	1.0037+00	3.1446+00	4.1483+00	2.9494+01	1.5334+00	1.0000+00
.6	1.0059+00	3.1444+00	4.1503+00	2.9031+01	1.7343+00	1.0000+00
.8	1.0092+00	3.1445+00	4.1537+00	2.8567+01	1.9358+00	1.0000+00
1.0	1.0146+00	3.1447+00	4.1593+00	2.8101+01	2.1381+00	1.0000+00
1.2	1.0232+00	3.1451+00	4.1683+00	2.7633+01	2.3418+00	1.0000+00
1.4	1.0367+00	3.1460+00	4.1827+00	2.7160+01	2.5475+00	1.0000+00
1.6	1.0582+00	3.1474+00	4.2056+00	2.6679+01	2.7564+00	1.0000+00
1.8	1.0922+00	3.1498+00	4.2420+00	2.6187+01	2.9701+00	1.0000+00
2.0	1.1461+00	3.1536+00	4.2997+00	2.5676+01	3.1910+00	1.0000+00
2.2	1.2316+00	3.1597+00	4.3912+00	2.5136+01	3.4223+00	1.0000+00

$\Gamma = 3800$ 

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.4800-01	2.1500-07	4.0200-06	.0000+00	4.5200-01	4.2300-06
-6.8	6.1200-01	2.0900-07	2.9900-06	.0000+00	3.8800-01	3.2000-06
-6.6	6.7200-01	1.9900-07	2.2100-06	.0000+00	3.2800-01	2.4100-06
-6.4	7.2500-01	1.8700-07	1.6100-06	.0000+00	2.7500-01	1.8000-06
-6.2	7.7100-01	1.7300-07	1.1700-06	.0000+00	2.2900-01	1.3400-06
-6.0	8.1200-01	1.5900-07	8.3500-07	.0000+00	1.8800-01	9.9400-07
-5.8	8.4600-01	1.4300-07	5.9300-07	.0000+00	1.5400-01	7.3600-07
-5.6	8.7500-01	1.2800-07	4.1700-07	.0000+00	1.2500-01	5.4600-07
-5.4	8.9800-01	1.1400-07	2.9100-07	.0000+00	1.0200-01	4.0500-07
-5.2	9.1800-01	9.9400-08	2.0200-07	.0000+00	8.2000-02	3.0100-07
-5.0	9.3400-01	8.6300-08	1.3800-07	.0000+00	6.6000-02	2.2500-07
-4.8	9.4700-01	7.4200-08	9.4100-08	.0000+00	5.3000-02	1.6800-07
-4.6	9.5800-01	6.3200-08	6.3500-08	.0000+00	4.2400-02	1.2700-07
-4.4	9.6600-01	5.3400-08	4.2500-08	.0000+00	3.3900-02	9.5900-08
-4.2	9.7300-01	4.4700-08	2.8200-08	.0000+00	2.7100-02	7.3000-08
-4.0	9.7800-01	3.7200-08	1.8600-08	.0000+00	2.1600-02	5.5800-08
-3.8	9.8300-01	3.0700-08	1.2200-08	.0000+00	1.7200-02	4.2900-08
-3.6	9.8600-01	2.5200-08	7.9500-09	.0000+00	1.3700-02	3.3200-08
-3.4	9.8900-01	2.0600-08	5.1500-09	.0000+00	1.0900-02	2.5700-08
-3.2	9.9100-01	1.6700-08	3.3200-09	.0000+00	8.6900-03	2.0100-08
-3.0	9.9300-01	1.3500-08	2.1400-09	.0000+00	6.9100-03	1.5700-08
-2.8	9.9500-01	1.0900-08	1.3700-09	.0000+00	5.4900-03	1.2300-08
-2.6	9.9600-01	8.7800-09	8.7400-10	.0000+00	4.3700-03	9.6600-09
-2.4	9.9700-01	7.0500-09	5.5700-10	.0000+00	3.4700-03	7.6100-09
-2.2	9.9700-01	5.6400-09	3.5400-10	.0000+00	2.7600-03	6.0000-09
-2.0	9.9800-01	4.5100-09	2.2500-10	.0000+00	2.1900-03	4.7400-09
-1.8	9.9800-01	3.6000-09	1.4300-10	.0000+00	1.7400-03	3.7500-09
-1.6	9.9900-01	2.8700-09	9.0400-11	.0000+00	1.3800-03	2.9600-09
-1.4	9.9900-01	2.2900-09	5.7200-11	.0000+00	1.1000-03	2.3500-09
-1.2	9.9900-01	1.8200-09	3.6200-11	.0000+00	8.7400-04	1.8600-09
-1.0	9.9900-01	1.4500-09	2.2900-11	.0000+00	6.9400-04	1.4800-09
-.8	9.9900-01	1.1600-09	1.4500-11	.0000+00	5.5100-04	1.1700-09
-.6	1.0000+00	9.2000-10	9.1400-12	.0000+00	4.3800-04	9.2900-10
-.4	1.0000+00	7.3100-10	5.7800-12	.0000+00	3.4800-04	7.3700-10
-.2	1.0000+00	5.8200-10	3.6500-12	.0000+00	2.7600-04	5.8500-10
.0	1.0000+00	4.6300-10	2.3100-12	.0000+00	2.1900-04	4.6500-10
.2	1.0000+00	3.6800-10	1.4600-12	.0000+00	1.7400-04	3.6900-10
.4	1.0000+00	2.9300-10	9.2400-13	.0000+00	1.3800-04	2.9400-10
.6	1.0000+00	2.3300-10	5.8600-13	.0000+00	1.1000-04	2.3400-10
.8	1.0000+00	1.8600-10	3.7300-13	.0000+00	8.7000-05	1.8600-10
1.0	1.0000+00	1.4900-10	2.3800-13	.0000+00	6.8900-05	1.4900-10
1.2	1.0000+00	1.1900-10	1.5300-13	.0000+00	5.4400-05	1.1900-10
1.4	1.0000+00	9.5800-11	9.9700-14	.0000+00	4.2900-05	9.5900-11
1.6	1.0000+00	7.7800-11	6.6000-14	.0000+00	3.3700-05	7.7800-11
1.8	1.0000+00	6.3900-11	4.5000-14	.0000+00	2.6200-05	6.4000-11
2.0	1.0000+00	5.3600-11	3.2100-14	.0000+00	2.0200-05	5.3600-11
2.2	1.0000+00	4.6400-11	2.4500-14	.0000+00	1.5300-05	4.6400-11

T= 3800

LDG D	Z	E/RT	H/RT	S/R	LDG P	Z*
-7.0	1.2921+00	1.1823+01	1.3115+01	5.5936+01	-5.7453+00	1.2921+00
-6.8	1.2404+00	1.0287+01	1.1527+01	5.3817+01	-5.5631+00	1.2404+00
-6.6	1.1964+00	8.9815+00	1.0178+01	5.1951+01	-5.3787+00	1.1964+00
-6.4	1.1595+00	7.8877+00	9.0472+00	5.0315+01	-5.1923+00	1.1595+00
-6.2	1.1290+00	6.9816+00	8.1106+00	4.8882+01	-5.0039+00	1.1290+00
-6.0	1.1039+00	6.2376+00	7.3416+00	4.7624+01	-4.8137+00	1.1039+00
-5.8	1.0835+00	5.6310+00	6.7145+00	4.6514+01	-4.6218+00	1.0835+00
-5.6	1.0669+00	5.1391+00	6.2060+00	4.5527+01	-4.4285+00	1.0669+00
-5.4	1.0535+00	4.7419+00	5.7954+00	4.4642+01	-4.2340+00	1.0535+00
-5.2	1.0428+00	4.4223+00	5.4651+00	4.3839+01	-4.0384+00	1.0428+00
-5.0	1.0341+00	4.1658+00	5.1999+00	4.3105+01	-3.8420+00	1.0341+00
-4.8	1.0272+00	3.9604+00	4.9876+00	4.2425+01	-3.6450+00	1.0272+00
-4.6	1.0217+00	3.7962+00	4.8178+00	4.1789+01	-3.4473+00	1.0217+00
-4.4	1.0173+00	3.6651+00	4.6823+00	4.1188+01	-3.2492+00	1.0173+00
-4.2	1.0137+00	3.5605+00	4.5742+00	4.0616+01	-3.0507+00	1.0137+00
-4.0	1.0109+00	3.4772+00	4.4881+00	4.0067+01	-2.8519+00	1.0109+00
-3.8	1.0087+00	3.4108+00	4.4195+00	3.9535+01	-2.6529+00	1.0087+00
-3.6	1.0069+00	3.3580+00	4.3649+00	3.9018+01	-2.4536+00	1.0069+00
-3.4	1.0055+00	3.3160+00	4.3214+00	3.8513+01	-2.2542+00	1.0055+00
-3.2	1.0044+00	3.2825+00	4.2869+00	3.8017+01	-2.0547+00	1.0044+00
-3.0	1.0035+00	3.2560+00	4.2594+00	3.7528+01	-1.8551+00	1.0035+00
-2.8	1.0028+00	3.2348+00	4.2376+00	3.7045+01	-1.6554+00	1.0028+00
-2.6	1.0022+00	3.2180+00	4.2202+00	3.6566+01	-1.4557+00	1.0022+00
-2.4	1.0017+00	3.2047+00	4.2064+00	3.6092+01	-1.2559+00	1.0017+00
-2.2	1.0014+00	3.1941+00	4.1955+00	3.5620+01	-1.0560+00	1.0014+00
-2.0	1.0011+00	3.1857+00	4.1868+00	3.5150+01	-8.5613-01	1.0011+00
-1.8	1.0009+00	3.1790+00	4.1799+00	3.4683+01	-6.5623-01	1.0009+00
-1.6	1.0007+00	3.1737+00	4.1744+00	3.4216+01	-4.5630-01	1.0007+00
-1.4	1.0006+00	3.1694+00	4.1700+00	3.3751+01	-2.5635-01	1.0006+00
-1.2	1.0005+00	3.1661+00	4.1666+00	3.3287+01	-5.6387-02	1.0004+00
-1.0	1.0005+00	3.1634+00	4.1639+00	3.2824+01	1.4360-01	1.0003+00
-.8	1.0005+00	3.1613+00	4.1618+00	3.2361+01	3.4360-01	1.0003+00
-.6	1.0006+00	3.1596+00	4.1602+00	3.1899+01	5.4364-01	1.0002+00
-.4	1.0008+00	3.1583+00	4.1591+00	3.1436+01	7.4371-01	1.0002+00
-.2	1.0011+00	3.1573+00	4.1583+00	3.0974+01	9.4384-01	1.0001+00
.0	1.0016+00	3.1565+00	4.1580+00	3.0512+01	1.1441+00	1.0001+00
.2	1.0024+00	3.1559+00	4.1583+00	3.0050+01	1.3444+00	1.0001+00
.4	1.0037+00	3.1554+00	4.1592+00	2.9588+01	1.5450+00	1.0001+00
.6	1.0059+00	3.1552+00	4.1610+00	2.9125+01	1.7459+00	1.0001+00
.8	1.0092+00	3.1551+00	4.1643+00	2.8661+01	1.9474+00	1.0000+00
1.0	1.0146+00	3.1552+00	4.1698+00	2.8195+01	2.1497+00	1.0000+00
1.2	1.0231+00	3.1556+00	4.1788+00	2.7727+01	2.3533+00	1.0000+00
1.4	1.0366+00	3.1565+00	4.1931+00	2.7254+01	2.5590+00	1.0000+00
1.6	1.0581+00	3.1580+00	4.2160+00	2.6773+01	2.7679+00	1.0000+00
1.8	1.0920+00	3.1604+00	4.2524+00	2.6281+01	2.9816+00	1.0000+00
2.0	1.1458+00	3.1644+00	4.3102+00	2.5771+01	3.2025+00	1.0000+00
2.2	1.2311+00	3.1707+00	4.4018+00	2.5231+01	3.4337+00	1.0000+00

T= 3900

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.3400-01	2.9000-07	7.8700-06	.0000+00	5.6600-01	8.1600-06
-6.8	5.0400-01	2.9100-07	5.9600-06	.0000+00	4.9600-01	6.2500-06
-6.6	5.7100-01	2.8600-07	4.4600-06	.0000+00	4.2900-01	4.7500-06
-6.4	6.3400-01	2.7600-07	3.3100-06	.0000+00	3.6600-01	3.5900-06
-6.2	6.9100-01	2.6200-07	2.4300-06	.0000+00	3.0900-01	2.6900-06
-6.0	7.4200-01	2.4500-07	1.7700-06	.0000+00	2.5800-01	2.0100-06
-5.8	7.8600-01	2.2500-07	1.2700-06	.0000+00	2.1400-01	1.5000-06
-5.6	8.2400-01	2.0500-07	9.0700-07	.0000+00	1.7600-01	1.1100-06
-5.4	8.5600-01	1.8400-07	6.4100-07	.0000+00	1.4400-01	8.2500-07
-5.2	8.8300-01	1.6400-07	4.4900-07	.0000+00	1.1700-01	6.1300-07
-5.0	9.0600-01	1.4400-07	3.1200-07	.0000+00	9.4400-02	4.5600-07
-4.8	9.2400-01	1.2600-07	2.1500-07	.0000+00	7.6100-02	3.4000-07
-4.6	9.3900-01	1.0800-07	1.4600-07	.0000+00	6.1100-02	2.5500-07
-4.4	9.5100-01	9.2600-08	9.9100-08	.0000+00	4.9000-02	1.9200-07
-4.2	9.6100-01	7.8400-08	6.6500-08	.0000+00	3.9200-02	1.4500-07
-4.0	9.6900-01	6.5900-08	4.4300-08	.0000+00	3.1400-02	1.1000-07
-3.8	9.7500-01	5.4900-08	2.9300-08	.0000+00	2.5000-02	8.4200-08
-3.6	9.8000-01	4.5500-08	1.9200-08	.0000+00	2.0000-02	6.4700-08
-3.4	9.8400-01	3.7400-08	1.2500-08	.0000+00	1.5900-02	4.9900-08
-3.2	9.8700-01	3.0600-08	8.1400-09	.0000+00	1.2700-02	3.8700-08
-3.0	9.9000-01	2.4900-08	5.2600-09	.0000+00	1.0100-02	3.0100-08
-2.8	9.9200-01	2.0200-08	3.3800-09	.0000+00	8.0200-03	2.3500-08
-2.6	9.9400-01	1.6300-08	2.1700-09	.0000+00	6.3800-03	1.8400-08
-2.4	9.9500-01	1.3100-08	1.3900-09	.0000+00	5.0700-03	1.4500-08
-2.2	9.9600-01	1.0500-08	8.8400-10	.0000+00	4.0300-03	1.1400-08
-2.0	9.9700-01	8.4300-09	5.6200-10	.0000+00	3.2000-03	8.9900-09
-1.8	9.9700-01	6.7400-09	3.5700-10	.0000+00	2.5500-03	7.1000-09
-1.6	9.9800-01	5.3900-09	2.2700-10	.0000+00	2.0200-03	5.6100-09
-1.4	9.9800-01	4.3000-09	1.4400-10	.0000+00	1.6100-03	4.4400-09
-1.2	9.9900-01	3.4300-09	9.0900-11	.0000+00	1.2800-03	3.5200-09
-1.0	9.9900-01	2.7300-09	5.7600-11	.0000+00	1.0100-03	2.7900-09
-.8	9.9900-01	2.1700-09	3.6400-11	.0000+00	8.0600-04	2.2100-09
-.6	9.9900-01	1.7300-09	2.3000-11	.0000+00	6.4000-04	1.7500-09
-.4	9.9900-01	1.3800-09	1.4500-11	.0000+00	5.0900-04	1.3900-09
-.2	1.0000+00	1.0900-09	9.2000-12	.0000+00	4.0400-04	1.1000-09
.0	1.0000+00	8.7100-10	5.8200-12	.0000+00	3.2100-04	8.7700-10
.2	1.0000+00	6.9300-10	3.6800-12	.0000+00	2.5500-04	6.9700-10
.4	1.0000+00	5.5100-10	2.3300-12	.0000+00	2.0200-04	5.5400-10
.6	1.0000+00	4.3900-10	1.4800-12	.0000+00	1.6000-04	4.4100-10
.8	1.0000+00	3.5000-10	9.3900-13	.0000+00	1.2700-04	3.5100-10
1.0	1.0000+00	2.8000-10	6.0000-13	.0000+00	1.0100-04	2.8000-10
1.2	1.0000+00	2.2400-10	3.8600-13	.0000+00	7.9600-05	2.2500-10
1.4	1.0000+00	1.8100-10	2.5100-13	.0000+00	6.2800-05	1.8100-10
1.6	1.0000+00	1.4700-10	1.6600-13	.0000+00	4.9200-05	1.4700-10
1.8	1.0000+00	1.2000-10	1.1300-13	.0000+00	3.8400-05	1.2100-10
2.0	1.0000+00	1.0100-10	7.9800-14	.0000+00	2.9600-05	1.0100-10
2.2	1.0000+00	8.7300-11	6.0600-14	.0000+00	2.2400-05	8.7400-11



T= 3900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.3950+00	1.4583+01	1.5978+01	5.9038+01	-5.7007+00	1.3950+00
-6.8	1.3302+00	1.2708+01	1.4038+01	5.6535+01	-5.5214+00	1.3302+00
-6.6	1.2732+00	1.1060+01	1.2333+01	5.4289+01	-5.3404+00	1.2732+00
-6.4	1.2242+00	9.6438+00	1.0868+01	5.2298+01	-5.1575+00	1.2242+00
-6.2	1.1828+00	8.4463+00	9.6291+00	5.0546+01	-4.9724+00	1.1828+00
-6.0	1.1482+00	7.4473+00	8.5956+00	4.9011+01	-4.7853+00	1.1482+00
-5.8	1.1197+00	6.6225+00	7.7422+00	4.7664+01	-4.5962+00	1.1197+00
-5.6	1.0963+00	5.9471+00	7.0434+00	4.6478+01	-4.4054+00	1.0963+00
-5.4	1.0773+00	5.3974+00	6.4748+00	4.5428+01	-4.2130+00	1.0773+00
-5.2	1.0619+00	4.9525+00	6.0144+00	4.4491+01	-4.0192+00	1.0619+00
-5.0	1.0495+00	4.5936+00	5.6431+00	4.3646+01	-3.8243+00	1.0495+00
-4.8	1.0395+00	4.3052+00	5.3447+00	4.2877+01	-3.6285+00	1.0395+00
-4.6	1.0315+00	4.0739+00	5.1054+00	4.2169+01	-3.4319+00	1.0315+00
-4.4	1.0251+00	3.8888+00	4.9139+00	4.1510+01	-3.2346+00	1.0251+00
-4.2	1.0200+00	3.7408+00	4.7609+00	4.0891+01	-3.0367+00	1.0200+00
-4.0	1.0159+00	3.6228+00	4.6387+00	4.0304+01	-2.8385+00	1.0159+00
-3.8	1.0127+00	3.5287+00	4.5413+00	3.9743+01	-2.6399+00	1.0127+00
-3.6	1.0101+00	3.4537+00	4.4638+00	3.9202+01	-2.4410+00	1.0101+00
-3.4	1.0080+00	3.3940+00	4.4020+00	3.8678+01	-2.2419+00	1.0080+00
-3.2	1.0064+00	3.3465+00	4.3528+00	3.8167+01	-2.0426+00	1.0064+00
-3.0	1.0051+00	3.3087+00	4.3137+00	3.7666+01	-1.8431+00	1.0051+00
-2.8	1.0040+00	3.2786+00	4.2826+00	3.7173+01	-1.6436+00	1.0040+00
-2.6	1.0032+00	3.2547+00	4.2579+00	3.6687+01	-1.4439+00	1.0032+00
-2.4	1.0025+00	3.2357+00	4.2382+00	3.6206+01	-1.2442+00	1.0025+00
-2.2	1.0020+00	3.2206+00	4.2226+00	3.5730+01	-1.0445+00	1.0020+00
-2.0	1.0016+00	3.2086+00	4.2102+00	3.5256+01	-8.4463-01	1.0016+00
-1.8	1.0013+00	3.1991+00	4.2004+00	3.4786+01	-6.4477-01	1.0013+00
-1.6	1.0010+00	3.1915+00	4.1925+00	3.4317+01	-4.4488-01	1.0010+00
-1.4	1.0009+00	3.1855+00	4.1863+00	3.3850+01	-2.4496-01	1.0008+00
-1.2	1.0007+00	3.1807+00	4.1814+00	3.3384+01	-4.5018-02	1.0006+00
-1.0	1.0007+00	3.1769+00	4.1775+00	3.2920+01	1.5495-01	1.0005+00
-.8	1.0006+00	3.1739+00	4.1745+00	3.2456+01	3.5494-01	1.0004+00
-.6	1.0007+00	3.1715+00	4.1722+00	3.1993+01	5.5496-01	1.0003+00
-.4	1.0008+00	3.1696+00	4.1704+00	3.1530+01	7.5503-01	1.0003+00
-.2	1.0011+00	3.1681+00	4.1692+00	3.1067+01	9.5515-01	1.0002+00
.0	1.0016+00	3.1670+00	4.1686+00	3.0605+01	1.1554+00	1.0002+00
.2	1.0024+00	3.1661+00	4.1685+00	3.0143+01	1.3557+00	1.0001+00
.4	1.0038+00	3.1654+00	4.1692+00	2.9680+01	1.5563+00	1.0001+00
.6	1.0059+00	3.1650+00	4.1709+00	2.9217+01	1.7572+00	1.0001+00
.8	1.0092+00	3.1648+00	4.1740+00	2.8753+01	1.9587+00	1.0001+00
1.0	1.0146+00	3.1648+00	4.1794+00	2.8287+01	2.1610+00	1.0001+00
1.2	1.0231+00	3.1652+00	4.1883+00	2.7818+01	2.3646+00	1.0000+00
1.4	1.0366+00	3.1660+00	4.2026+00	2.7345+01	2.5703+00	1.0000+00
1.6	1.0580+00	3.1675+00	4.2254+00	2.6865+01	2.7791+00	1.0000+00
1.8	1.0918+00	3.1700+00	4.2618+00	2.6373+01	2.9928+00	1.0000+00
2.0	1.1455+00	3.1741+00	4.3196+00	2.5863+01	3.2137+00	1.0000+00
2.2	1.2306+00	3.1806+00	4.4113+00	2.5324+01	3.4448+00	1.0000+00

T= 4000

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.2400-01	3.6600-07	1.4500-05	.0000+00	6.7600-01	1.4900-05
-6.8	3.9400-01	3.8100-07	1.1200-05	.0000+00	6.0600-01	1.1600-05
-6.6	4.6400-01	3.8600-07	8.5100-06	.0000+00	5.3600-01	8.8900-06
-6.4	5.3300-01	3.8400-07	6.4100-06	.0000+00	4.6700-01	6.7900-06
-6.2	5.9900-01	3.7400-07	4.7800-06	.0000+00	4.0100-01	5.1500-06
-6.0	6.5900-01	3.5800-07	3.5300-06	.0000+00	3.4100-01	3.8800-06
-5.8	7.1400-01	3.3700-07	2.5800-06	.0000+00	2.8600-01	2.9100-06
-5.6	7.6200-01	3.1700-07	1.8600-06	.0000+00	2.3800-01	2.1700-06
-5.4	8.0300-01	2.8600-07	1.3300-06	.0000+00	1.9700-01	1.6200-06
-5.2	8.3900-01	2.5800-07	9.4500-07	.0000+00	1.6100-01	1.2000-06
-5.0	8.6900-01	2.3100-07	6.6400-07	.0000+00	1.3100-01	8.9500-07
-4.8	8.9400-01	2.0400-07	4.6300-07	.0000+00	1.0600-01	6.6600-07
-4.6	9.1400-01	1.7800-07	3.1900-07	.0000+00	8.6000-02	4.9700-07
-4.4	9.3100-01	1.5400-07	2.1800-07	.0000+00	6.9200-02	3.7200-07
-4.2	9.4400-01	1.3200-07	1.4800-07	.0000+00	5.5600-02	2.8000-07
-4.0	9.5500-01	1.1200-07	9.9600-08	.0000+00	4.4500-02	2.1200-07
-3.8	9.6400-01	9.4400-08	6.6500-08	.0000+00	3.5600-02	1.6100-07
-3.6	9.7200-01	7.8900-08	4.4000-08	.0000+00	2.8500-02	1.2300-07
-3.4	9.7700-01	6.5400-08	2.9000-08	.0000+00	2.2700-02	9.4300-08
-3.2	9.8200-01	5.3900-08	1.8900-08	.0000+00	1.8100-02	7.2800-08
-3.0	9.8600-01	4.4100-08	1.2300-08	.0000+00	1.4400-02	5.6400-08
-2.8	9.8900-01	3.5900-08	7.9500-09	.0000+00	1.1500-02	4.3900-08
-2.6	9.9100-01	2.9100-08	5.1200-09	.0000+00	9.1300-03	3.4300-08
-2.4	9.9300-01	2.3500-08	3.2800-09	.0000+00	7.2600-03	2.6800-08
-2.2	9.9400-01	1.9000-08	2.1000-09	.0000+00	5.7800-03	2.1100-08
-2.0	9.9500-01	1.5200-08	1.3400-09	.0000+00	4.5900-03	1.6600-08
-1.8	9.9600-01	1.2200-08	8.5300-10	.0000+00	3.6500-03	1.3100-08
-1.6	9.9700-01	9.7700-09	5.4200-10	.0000+00	2.9000-03	1.0300-08
-1.4	9.9800-01	7.8100-09	3.4400-10	.0000+00	2.3100-03	8.1500-09
-1.2	9.9800-01	6.2300-09	2.1800-10	.0000+00	1.8300-03	6.4500-09
-1.0	9.9900-01	4.9700-09	1.3800-10	.0000+00	1.4600-03	5.1100-09
-.8	9.9900-01	3.9600-09	8.7400-11	.0000+00	1.1600-03	4.0500-09
-.6	9.9900-01	3.1500-09	5.5300-11	.0000+00	9.1900-04	3.2100-09
-.4	9.9900-01	2.5100-09	3.5000-11	.0000+00	7.3000-04	2.5400-09
-.2	9.9900-01	2.0000-09	2.2100-11	.0000+00	5.8000-04	2.0200-09
.0	1.0000+00	1.5900-09	1.4000-11	.0000+00	4.6000-04	1.6000-09
.2	1.0000+00	1.2600-09	8.8500-12	.0000+00	3.6600-04	1.2700-09
.4	1.0000+00	1.0100-09	5.6000-12	.0000+00	2.9000-04	1.0100-09
.6	1.0000+00	8.0200-10	3.5500-12	.0000+00	2.3000-04	8.0500-10
.8	1.0000+00	6.3900-10	2.2600-12	.0000+00	1.8200-04	6.4200-10
1.0	1.0000+00	5.1100-10	1.4400-12	.0000+00	1.4500-04	5.1200-10
1.2	1.0000+00	4.0900-10	9.2600-13	.0000+00	1.1400-04	4.1000-10
1.4	1.0000+00	3.3000-10	6.0100-13	.0000+00	9.0100-05	3.3000-10
1.6	1.0000+00	2.6800-10	3.9700-13	.0000+00	7.0700-05	2.6800-10
1.8	1.0000+00	2.2000-10	2.6900-13	.0000+00	5.5100-05	2.2000-10
2.0	1.0000+00	1.8400-10	1.9000-13	.0000+00	4.2400-05	1.8500-10
2.2	1.0000+00	1.5900-10	1.4300-13	.0000+00	3.2100-05	1.6000-10

T= 4000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.5101+00	1.7545+01	1.9055+01	6.2407+01	-5.6553+00	1.5101+00
-6.8	1.4351+00	1.5431+01	1.6867+01	5.9615+01	-5.4775+00	1.4351+00
-6.6	1.3661+00	1.3487+01	1.4853+01	5.7026+01	-5.2989+00	1.3661+00
-6.4	1.3046+00	1.1754+01	1.3058+01	5.4678+01	-5.1189+00	1.3046+00
-6.2	1.2511+00	1.0246+01	1.1497+01	5.2582+01	-4.9371+00	1.2511+00
-6.0	1.2054+00	8.9593+00	1.0165+01	5.0730+01	-4.7532+00	1.2054+00
-5.8	1.1671+00	7.8783+00	9.0454+00	4.9103+01	-4.5672+00	1.1671+00
-5.6	1.1352+00	6.9809+00	8.1161+00	4.7676+01	-4.3793+00	1.1352+00
-5.4	1.1090+00	6.2427+00	7.3517+00	4.6421+01	-4.1894+00	1.1090+00
-5.2	1.0876+00	5.6399+00	6.7275+00	4.5313+01	-3.9979+00	1.0876+00
-5.0	1.0703+00	5.1506+00	6.2209+00	4.4327+01	-3.8048+00	1.0703+00
-4.8	1.0562+00	4.7552+00	5.8114+00	4.3442+01	-3.6106+00	1.0562+00
-4.6	1.0449+00	4.4368+00	5.4817+00	4.2640+01	-3.4153+00	1.0449+00
-4.4	1.0359+00	4.1811+00	5.2170+00	4.1905+01	-3.2190+00	1.0359+00
-4.2	1.0286+00	3.9763+00	5.0049+00	4.1225+01	-3.0221+00	1.0286+00
-4.0	1.0228+00	3.8124+00	4.8352+00	4.0589+01	-2.8246+00	1.0228+00
-3.8	1.0181+00	3.6816+00	4.6998+00	3.9988+01	-2.6265+00	1.0181+00
-3.6	1.0144+00	3.5773+00	4.5917+00	3.9416+01	-2.4281+00	1.0144+00
-3.4	1.0115+00	3.4941+00	4.5056+00	3.8866+01	-2.2294+00	1.0115+00
-3.2	1.0091+00	3.4278+00	4.4370+00	3.8334+01	-2.0304+00	1.0091+00
-3.0	1.0073+00	3.3751+00	4.3824+00	3.7817+01	-1.8312+00	1.0073+00
-2.8	1.0058+00	3.3331+00	4.3389+00	3.7312+01	-1.6318+00	1.0058+00
-2.6	1.0046+00	3.2998+00	4.3044+00	3.6816+01	-1.4324+00	1.0046+00
-2.4	1.0037+00	3.2732+00	4.2769+00	3.6327+01	-1.2328+00	1.0036+00
-2.2	1.0029+00	3.2521+00	4.2550+00	3.5844+01	-1.0331+00	1.0029+00
-2.0	1.0023+00	3.2354+00	4.2377+00	3.5365+01	-8.3334-01	1.0023+00
-1.8	1.0019+00	3.2220+00	4.2239+00	3.4890+01	-6.3354-01	1.0018+00
-1.6	1.0015+00	3.2114+00	4.2129+00	3.4418+01	-4.3369-01	1.0015+00
-1.4	1.0012+00	3.2030+00	4.2042+00	3.3949+01	-2.3381-01	1.0012+00
-1.2	1.0010+00	3.1963+00	4.1974+00	3.3481+01	-3.3902-02	1.0009+00
-1.0	1.0009+00	3.1910+00	4.1919+00	3.3015+01	1.6604-01	1.0007+00
-.8	1.0008+00	3.1868+00	4.1876+00	3.2550+01	3.6601-01	1.0006+00
-.6	1.0008+00	3.1835+00	4.1843+00	3.2086+01	5.6602-01	1.0005+00
-.4	1.0009+00	3.1808+00	4.1818+00	3.1622+01	7.6607-01	1.0004+00
-.2	1.0012+00	3.1787+00	4.1800+00	3.1159+01	9.6618-01	1.0003+00
.0	1.0017+00	3.1771+00	4.1788+00	3.0696+01	1.1664+00	1.0002+00
.2	1.0025+00	3.1758+00	4.1783+00	3.0233+01	1.3667+00	1.0002+00
.4	1.0038+00	3.1749+00	4.1787+00	2.9770+01	1.5673+00	1.0001+00
.6	1.0059+00	3.1742+00	4.1801+00	2.9307+01	1.7682+00	1.0001+00
.8	1.0093+00	3.1738+00	4.1831+00	2.8843+01	1.9697+00	1.0001+00
1.0	1.0146+00	3.1737+00	4.1883+00	2.8377+01	2.1720+00	1.0001+00
1.2	1.0231+00	3.1740+00	4.1971+00	2.7908+01	2.3756+00	1.0001+00
1.4	1.0365+00	3.1747+00	4.2113+00	2.7435+01	2.5812+00	1.0000+00
1.6	1.0579+00	3.1762+00	4.2341+00	2.6954+01	2.7901+00	1.0000+00
1.8	1.0917+00	3.1788+00	4.2704+00	2.6463+01	3.0037+00	1.0000+00
2.0	1.1452+00	3.1830+00	4.3282+00	2.5953+01	3.2246+00	1.0000+00
2.2	1.2302+00	3.1898+00	4.4199+00	2.5414+01	3.4556+00	1.0000+00

T= 4100

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.2900-01	4.3300-07	2.5600-05	.0000+00	7.7100-01	2.6000-05
-6.8	2.9200-01	4.6700-07	1.9900-05	.0000+00	7.0800-01	2.0400-05
-6.6	3.5900-01	4.9100-07	1.5400-05	.0000+00	6.4100-01	1.5900-05
-6.4	4.2900-01	5.0400-07	1.1800-05	.0000+00	5.7100-01	1.2300-05
-6.2	4.9900-01	5.0500-07	8.9000-06	.0000+00	5.0100-01	9.4000-06
-6.0	5.6700-01	4.9700-07	6.6600-06	.0000+00	4.3300-01	7.1600-06
-5.8	6.3000-01	4.7900-07	4.9400-06	.0000+00	3.7000-01	5.4200-06
-5.6	6.8800-01	4.5400-07	3.6200-06	.0000+00	3.1200-01	4.0800-06
-5.4	7.3900-01	4.2300-07	2.6300-06	.0000+00	2.6100-01	3.0500-06
-5.2	7.8400-01	3.8900-07	1.8900-06	.0000+00	2.1600-01	2.2800-06
-5.0	8.2200-01	3.5300-07	1.3400-06	.0000+00	1.7800-01	1.7000-06
-4.8	8.5500-01	3.1700-07	9.4700-07	.0000+00	1.4500-01	1.2600-06
-4.6	8.8200-01	2.8100-07	6.6100-07	.0000+00	1.1800-01	9.4200-07
-4.4	9.0400-01	2.4600-07	4.5700-07	.0000+00	9.5600-02	7.0300-07
-4.2	9.2300-01	2.1400-07	3.1300-07	.0000+00	7.7100-02	5.2700-07
-4.0	9.3800-01	1.8400-07	2.1300-07	.0000+00	6.2000-02	3.9700-07
-3.8	9.5000-01	1.5600-07	1.4400-07	.0000+00	4.9700-02	3.0000-07
-3.6	9.6000-01	1.3200-07	9.5900-08	.0000+00	3.9800-02	2.2800-07
-3.4	9.6800-01	1.1000-07	6.3600-08	.0000+00	3.1800-02	1.7400-07
-3.2	9.7500-01	9.1500-08	4.1900-08	.0000+00	2.5400-02	1.3300-07
-3.0	9.8000-01	7.5500-08	2.7400-08	.0000+00	2.0200-02	1.0300-07
-2.8	9.8400-01	6.1900-08	1.7800-08	.0000+00	1.6100-02	7.9700-08
-2.6	9.8700-01	5.0400-08	1.1500-08	.0000+00	1.2800-02	6.2000-08
-2.4	9.9000-01	4.0900-08	7.4300-09	.0000+00	1.0200-02	4.8400-08
-2.2	9.9200-01	3.3100-08	4.7700-09	.0000+00	8.1300-03	3.7900-08
-2.0	9.9400-01	2.6700-08	3.0500-09	.0000+00	6.4700-03	2.9700-08
-1.8	9.9500-01	2.1400-08	1.9500-09	.0000+00	5.1400-03	2.3400-08
-1.6	9.9600-01	1.7200-08	1.2400-09	.0000+00	4.0900-03	1.8400-08
-1.4	9.9700-01	1.3800-08	7.8800-10	.0000+00	3.2500-03	1.4500-08
-1.2	9.9700-01	1.1000-08	5.0000-10	.0000+00	2.5800-03	1.1500-08
-1.0	9.9800-01	8.7800-09	3.1700-10	.0000+00	2.0500-03	9.1000-09
-.8	9.9800-01	7.0000-09	2.0100-10	.0000+00	1.6300-03	7.2000-09
-.6	9.9900-01	5.5800-09	1.2700-10	.0000+00	1.3000-03	5.7100-09
-.4	9.9900-01	4.4400-09	8.0500-11	.0000+00	1.0300-03	4.5200-09
-.2	9.9900-01	3.5400-09	5.0900-11	.0000+00	8.1700-04	3.5900-09
.0	9.9900-01	2.8200-09	3.2200-11	.0000+00	6.4900-04	2.8500-09
.2	9.9900-01	2.2400-09	2.0400-11	.0000+00	5.1500-04	2.2600-09
.4	1.0000+00	1.7900-09	1.2900-11	.0000+00	4.0900-04	1.8000-09
.6	1.0000+00	1.4200-09	8.1900-12	.0000+00	3.2500-04	1.4300-09
.8	1.0000+00	1.1300-09	5.2000-12	.0000+00	2.5700-04	1.1400-09
1.0	1.0000+00	9.0600-10	3.3200-12	.0000+00	2.0400-04	9.1000-10
1.2	1.0000+00	7.2600-10	2.1300-12	.0000+00	1.6100-04	7.2900-10
1.4	1.0000+00	5.8500-10	1.3800-12	.0000+00	1.2700-04	5.8600-10
1.6	1.0000+00	4.7500-10	9.1100-13	.0000+00	9.9700-05	4.7600-10
1.8	1.0000+00	3.9000-10	6.1500-13	.0000+00	7.7700-05	3.9100-10
2.0	1.0000+00	3.2700-10	4.3200-13	.0000+00	5.9800-05	3.2800-10
2.2	1.0000+00	2.8300-10	3.2400-13	.0000+00	4.5300-05	2.8300-10

T= 4100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.6274+00	2.0423+01	2.2051+01	6.5754+01	-5.6121+00	1.6274+00
-6.8	1.5485+00	1.8256+01	1.9804+01	6.2855+01	-5.4337+00	1.5485+00
-6.6	1.4714+00	1.6137+01	1.7608+01	6.0041+01	-5.2559+00	1.4714+00
-6.4	1.3992+00	1.4152+01	1.5551+01	5.7396+01	-5.0777+00	1.3992+00
-6.2	1.3339+00	1.2357+01	1.3691+01	5.4971+01	-4.8985+00	1.3339+00
-6.0	1.2764+00	1.0777+01	1.2053+01	5.2791+01	-4.7176+00	1.2764+00
-5.8	1.2270+00	9.4172+00	1.0644+01	5.0855+01	-4.5348+00	1.2270+00
-5.6	1.1851+00	8.2665+00	9.4516+00	4.9149+01	-4.3499+00	1.1851+00
-5.4	1.1501+00	7.3059+00	8.4560+00	4.7651+01	-4.1629+00	1.1501+00
-5.2	1.1213+00	6.5123+00	7.6336+00	4.6335+01	-3.9739+00	1.1213+00
-5.0	1.0976+00	5.8622+00	6.9598+00	4.5174+01	-3.7832+00	1.0976+00
-4.8	1.0784+00	5.3329+00	6.4113+00	4.4144+01	-3.5909+00	1.0784+00
-4.6	1.0628+00	4.9044+00	5.9671+00	4.3222+01	-3.3972+00	1.0628+00
-4.4	1.0502+00	4.5587+00	5.6089+00	4.2390+01	-3.2023+00	1.0502+00
-4.2	1.0401+00	4.2808+00	5.3208+00	4.1631+01	-3.0065+00	1.0401+00
-4.0	1.0320+00	4.0579+00	5.0898+00	4.0931+01	-2.8099+00	1.0320+00
-3.8	1.0255+00	3.8795+00	4.9049+00	4.0279+01	-2.6127+00	1.0255+00
-3.6	1.0203+00	3.7369+00	4.7572+00	3.9665+01	-2.4149+00	1.0203+00
-3.4	1.0162+00	3.6731+00	4.6393+00	3.9083+01	-2.2167+00	1.0162+00
-3.2	1.0129+00	3.5324+00	4.5452+00	3.8525+01	-2.0181+00	1.0129+00
-3.0	1.0102+00	3.4601+00	4.4703+00	3.7987+01	-1.8192+00	1.0102+00
-2.8	1.0081+00	3.4025+00	4.4107+00	3.7464+01	-1.6201+00	1.0081+00
-2.6	1.0065+00	3.3567+00	4.3632+00	3.6955+01	-1.4208+00	1.0065+00
-2.4	1.0051+00	3.3203+00	4.3254+00	3.6455+01	-1.2214+00	1.0051+00
-2.2	1.0041+00	3.2913+00	4.2954+00	3.5963+01	-1.0218+00	1.0041+00
-2.0	1.0033+00	3.2683+00	4.2715+00	3.5478+01	-8.2220-01	1.0032+00
-1.8	1.0026+00	3.2500+00	4.2526+00	3.4998+01	-6.2249-01	1.0026+00
-1.6	1.0021+00	3.2354+00	4.2375+00	3.4522+01	-4.2271-01	1.0020+00
-1.4	1.0017+00	3.2238+00	4.2255+00	3.4049+01	-2.2289-01	1.0016+00
-1.2	1.0014+00	3.2146+00	4.2160+00	3.3579+01	-2.3016-02	1.0013+00
-1.0	1.0012+00	3.2073+00	4.2085+00	3.3110+01	1.7689-01	1.0010+00
-.8	1.0010+00	3.2015+00	4.2026+00	3.2643+01	3.7684-01	1.0008+00
-.6	1.0010+00	3.1969+00	4.1980+00	3.2178+01	5.7682-01	1.0006+00
-.4	1.0011+00	3.1933+00	4.1944+00	3.1713+01	7.7686-01	1.0005+00
-.2	1.0013+00	3.1904+00	4.1917+00	3.1249+01	9.7696-01	1.0004+00
.0	1.0018+00	3.1881+00	4.1899+00	3.0786+01	1.1772+00	1.0003+00
.2	1.0026+00	3.1864+00	4.1889+00	3.0322+01	1.3775+00	1.0003+00
.4	1.0038+00	3.1850+00	4.1889+00	2.9859+01	1.5781+00	1.0002+00
.6	1.0059+00	3.1841+00	4.1900+00	2.9395+01	1.7790+00	1.0002+00
.8	1.0093+00	3.1834+00	4.1927+00	2.8931+01	1.9804+00	1.0001+00
1.0	1.0146+00	3.1831+00	4.1977+00	2.8465+01	2.1827+00	1.0001+00
1.2	1.0231+00	3.1833+00	4.2063+00	2.7996+01	2.3863+00	1.0001+00
1.4	1.0365+00	3.1839+00	4.2204+00	2.7522+01	2.5919+00	1.0001+00
1.6	1.0577+00	3.1854+00	4.2431+00	2.7042+01	2.8008+00	1.0000+00
1.8	1.0915+00	3.1879+00	4.2794+00	2.6550+01	3.0144+00	1.0000+00
2.0	1.1450+00	3.1922+00	4.3372+00	2.6040+01	3.2352+00	1.0000+00
2.2	1.2297+00	3.1992+00	4.4289+00	2.5502+01	3.4662+00	1.0000+00

T= 4200

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.5300-01	4.8200-07	4.3300-05	.0000+00	8.4700-01	4.3800-05
-6.8	2.0500-01	5.3900-07	3.4000-05	.0000+00	7.9500-01	3.4500-05
-6.6	2.6500-01	5.8700-07	2.6500-05	.0000+00	7.3500-01	2.7100-05
-6.4	3.3000-01	6.2400-07	2.0500-05	.0000+00	6.7000-01	2.1200-05
-6.2	4.0000-01	6.4600-07	1.5800-05	.0000+00	6.0000-01	1.6400-05
-6.0	4.7000-01	6.5400-07	1.2000-05	.0000+00	5.3000-01	1.2600-05
-5.8	5.3900-01	6.4800-07	9.0100-06	.0000+00	4.6100-01	9.6600-06
-5.6	6.0400-01	6.2900-07	6.7000-06	.0000+00	3.9600-01	7.3300-06
-5.4	6.6400-01	6.0000-07	4.9300-06	.0000+00	3.3600-01	5.5300-06
-5.2	7.1800-01	5.6300-07	3.5900-06	.0000+00	2.8200-01	4.1500-06
-5.0	7.6600-01	5.2000-07	2.5900-06	.0000+00	2.3400-01	3.1100-06
-4.8	8.0700-01	4.7400-07	1.8500-06	.0000+00	1.9300-01	2.3200-06
-4.6	8.4200-01	4.2700-07	1.3000-06	.0000+00	1.5800-01	1.7300-06
-4.4	8.7100-01	3.7900-07	9.1200-07	.0000+00	1.2900-01	1.2900-06
-4.2	8.9500-01	3.3300-07	6.3200-07	.0000+00	1.0500-01	9.6500-07
-4.0	9.1600-01	2.9000-07	4.3400-07	.0000+00	8.4400-02	7.2400-07
-3.8	9.3200-01	2.4900-07	2.9500-07	.0000+00	6.7900-02	5.4500-07
-3.6	9.4500-01	2.1300-07	1.9900-07	.0000+00	5.4500-02	4.1200-07
-3.4	9.5600-01	1.8000-07	1.3300-07	.0000+00	4.3700-02	3.1300-07
-3.2	9.6500-01	1.5000-07	8.8500-08	.0000+00	3.4900-02	2.3900-07
-3.0	9.7200-01	1.2500-07	5.8300-08	.0000+00	2.7900-02	1.8300-07
-2.8	9.7800-01	1.0300-07	3.8200-08	.0000+00	2.2300-02	1.4100-07
-2.6	9.8200-01	8.4700-08	2.4800-08	.0000+00	1.7700-02	1.1000-07
-2.4	9.8600-01	6.9100-08	1.6100-08	.0000+00	1.4100-02	8.5200-08
-2.2	9.8900-01	5.6100-08	1.0400-08	.0000+00	1.1300-02	6.6500-08
-2.0	9.9100-01	4.5400-08	6.6600-09	.0000+00	8.9500-03	5.2000-08
-1.8	9.9300-01	3.6600-08	4.2600-09	.0000+00	7.1200-03	4.0800-08
-1.6	9.9400-01	2.9400-08	2.7200-09	.0000+00	5.6600-03	3.2100-08
-1.4	9.9500-01	2.3600-08	1.7300-09	.0000+00	4.5000-03	2.5300-08
-1.2	9.9600-01	1.8900-08	1.1000-09	.0000+00	3.5800-03	2.0000-08
-1.0	9.9700-01	1.5100-08	6.9900-10	.0000+00	2.8400-03	1.5800-08
-.8	9.9800-01	1.2000-08	4.4400-10	.0000+00	2.2600-03	1.2500-08
-.6	9.9800-01	9.6100-09	2.8100-10	.0000+00	1.8000-03	9.8900-09
-.4	9.9900-01	7.6600-09	1.7800-10	.0000+00	1.4300-03	7.8400-09
-.2	9.9900-01	6.1000-09	1.1300-10	.0000+00	1.1300-03	6.2100-09
.0	9.9900-01	4.8600-09	7.1300-11	.0000+00	9.0300-04	4.9300-09
.2	9.9900-01	3.8700-09	4.5100-11	.0000+00	7.1500-04	3.9100-09
.4	9.9900-01	3.0800-09	2.8600-11	.0000+00	5.6700-04	3.1100-09
.6	1.0000+00	2.4600-09	1.8100-11	.0000+00	4.5000-04	2.4700-09
.8	1.0000+00	1.9600-09	1.1500-11	.0000+00	3.5700-04	1.9700-09
1.0	1.0000+00	1.5700-09	7.3500-12	.0000+00	2.8300-04	1.5700-09
1.2	1.0000+00	1.2500-09	4.7200-12	.0000+00	2.2300-04	1.2600-09
1.4	1.0000+00	1.0100-09	3.0600-12	.0000+00	1.7600-04	1.0100-09
1.6	1.0000+00	8.2000-10	2.0100-12	.0000+00	1.3800-04	8.2200-10
1.8	1.0000+00	6.7400-10	1.3500-12	.0000+00	1.0800-04	6.7600-10
2.0	1.0000+00	5.6500-10	9.4800-13	.0000+00	8.3000-05	5.6600-10
2.2	1.0000+00	4.8900-10	7.0500-13	.0000+00	6.2800-05	4.8900-10

T= 4200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.7345+00	2.2892+01	2.4627+01	6.8746+01	-5.5740+00	1.7345+00
-6.8	1.6601+00	2.0896+01	2.2556+01	6.5968+01	-5.3930+00	1.6601+00
-6.6	1.5817+00	1.8791+01	2.0373+01	6.3117+01	-5.2140+00	1.5817+00
-6.4	1.5034+00	1.6691+01	1.8195+01	6.0306+01	-5.0361+00	1.5034+00
-6.2	1.4288+00	1.4691+01	1.6170+01	5.7631+01	-4.8582+00	1.4288+00
-6.0	1.3604+00	1.2856+01	1.4717+01	5.5154+01	-4.6795+00	1.3604+00
-5.8	1.2996+00	1.1224+01	1.2524+01	5.2910+01	-4.4993+00	1.2996+00
-5.6	1.2468+00	9.8075+00	1.1054+01	5.0907+01	-4.3174+00	1.2468+00
-5.4	1.2018+00	8.6006+00	9.8024+00	4.9137+01	-4.1333+00	1.2018+00
-5.2	1.1640+00	7.5877+00	8.7517+00	4.7579+01	-3.9472+00	1.1640+00
-5.0	1.1327+00	6.7475+00	7.8802+00	4.6211+01	-3.7590+00	1.1327+00
-4.8	1.1070+00	6.0568+00	7.1638+00	4.5005+01	-3.5690+00	1.1070+00
-4.6	1.0860+00	5.4933+00	6.5792+00	4.3936+01	-3.3773+00	1.0860+00
-4.4	1.0689+00	5.0359+00	6.1049+00	4.2983+01	-3.1842+00	1.0689+00
-4.2	1.0551+00	4.6665+00	5.7217+00	4.2124+01	-2.9898+00	1.0551+00
-4.0	1.0441+00	4.3691+00	5.4132+00	4.1344+01	-2.7944+00	1.0441+00
-3.8	1.0352+00	4.1304+00	5.1655+00	4.0626+01	-2.5981+00	1.0352+00
-3.6	1.0280+00	3.9391+00	4.9671+00	3.9960+01	-2.4011+00	1.0280+00
-3.4	1.0223+00	3.7862+00	4.8085+00	3.9335+01	-2.2036+00	1.0223+00
-3.2	1.0178+00	3.6641+00	4.6819+00	3.8743+01	-2.0055+00	1.0178+00
-3.0	1.0142+00	3.5667+00	4.5808+00	3.8178+01	-1.8070+00	1.0141+00
-2.8	1.0113+00	3.4891+00	4.5003+00	3.7634+01	-1.6083+00	1.0113+00
-2.6	1.0090+00	3.4272+00	4.4362+00	3.7107+01	-1.4093+00	1.0090+00
-2.4	1.0071+00	3.3780+00	4.3851+00	3.6594+01	-1.2101+00	1.0071+00
-2.2	1.0057+00	3.3389+00	4.3445+00	3.6091+01	-1.0107+00	1.0057+00
-2.0	1.0045+00	3.3077+00	4.3122+00	3.5597+01	-8.1120-01	1.0045+00
-1.8	1.0036+00	3.2830+00	4.2866+00	3.5110+01	-6.1159-01	1.0036+00
-1.6	1.0029+00	3.2633+00	4.2661+00	3.4628+01	-4.1190-01	1.0028+00
-1.4	1.0023+00	3.2476+00	4.2499+00	3.4151+01	-2.1215-01	1.0023+00
-1.2	1.0019+00	3.2352+00	4.2371+00	3.3677+01	-1.2334-02	1.0018+00
-1.0	1.0016+00	3.2253+00	4.2269+00	3.3206+01	1.8753-01	1.0014+00
-.8	1.0014+00	3.2175+00	4.2188+00	3.2737+01	3.8744-01	1.0011+00
-.6	1.0013+00	3.2112+00	4.2125+00	3.2269+01	5.8740-01	1.0009+00
-.4	1.0013+00	3.2063+00	4.2076+00	3.1803+01	7.8741-01	1.0007+00
-.2	1.0015+00	3.2024+00	4.2039+00	3.1338+01	9.8749-01	1.0006+00
.0	1.0019+00	3.1993+00	4.2012+00	3.0874+01	1.1877+00	1.0005+00
.2	1.0027+00	3.1969+00	4.1995+00	3.0410+01	1.3880+00	1.0004+00
.4	1.0039+00	3.1950+00	4.1989+00	2.9946+01	1.5885+00	1.0003+00
.6	1.0060+00	3.1936+00	4.1996+00	2.9482+01	1.7894+00	1.0002+00
.8	1.0093+00	3.1927+00	4.2020+00	2.9017+01	1.9909+00	1.0002+00
1.0	1.0146+00	3.1922+00	4.2068+00	2.8551+01	2.1931+00	1.0001+00
1.2	1.0230+00	3.1921+00	4.2151+00	2.8081+01	2.3967+00	1.0001+00
1.4	1.0364+00	3.1926+00	4.2291+00	2.7603+01	2.6024+00	1.0001+00
1.6	1.0577+00	3.1940+00	4.2516+00	2.7128+01	2.8112+00	1.0001+00
1.8	1.0913+00	3.1965+00	4.2878+00	2.6636+01	3.0248+00	1.0001+00
2.0	1.1447+00	3.2009+00	4.3455+00	2.6126+01	3.2455+00	1.0000+00
2.2	1.2293+00	3.2080+00	4.4373+00	2.5588+01	3.4765+00	1.0000+00

T= 4300

LOG D	N2	N2+	N+	N++	N	E
-7.0	9.7700-02	5.1100-07	7.1000-05	.0000+00	9.0200-01	7.1500-05
-6.8	1.3700-01	5.9100-07	5.6000-05	.0000+00	8.6300-01	5.6600-05
-6.6	1.8500-01	6.6600-07	4.4000-05	.0000+00	8.1500-01	4.4700-05
-6.4	2.4200-01	7.3300-07	3.4400-05	.0000+00	7.5800-01	3.5200-05
-6.2	3.0600-01	7.8500-07	2.6700-05	.0000+00	6.9400-01	2.7500-05
-6.0	3.7500-01	8.2000-07	2.0600-05	.0000+00	6.2500-01	2.1400-05
-5.8	4.4500-01	8.3700-07	1.5700-05	.0000+00	5.5500-01	1.6500-05
-5.6	5.1500-01	8.3400-07	1.1800-05	.0000+00	4.8500-01	1.2700-05
-5.4	5.8100-01	8.1500-07	8.8300-06	.0000+00	4.1900-01	9.6500-06
-5.2	6.4300-01	7.8700-07	6.5200-06	.0000+00	3.5700-01	7.3000-06
-5.0	7.0000-01	7.3700-07	4.7600-06	.0000+00	3.0000-01	5.5000-06
-4.8	7.4900-01	6.8400-07	3.4400-06	.0000+00	2.5000-01	4.1200-06
-4.6	7.9300-01	6.2500-07	2.4600-06	.0000+00	2.0700-01	3.0800-06
-4.4	8.3000-01	5.6400-07	1.7400-06	.0000+00	1.7000-01	2.3000-06
-4.2	8.6100-01	5.0300-07	1.2200-06	.0000+00	1.3900-01	1.7200-06
-4.0	8.8700-01	4.4300-07	8.4600-07	.0000+00	1.1300-01	1.2900-06
-3.8	9.0900-01	3.8600-07	5.8100-07	.0000+00	9.1100-02	9.6700-07
-3.6	9.2700-01	3.3200-07	3.9600-07	.0000+00	7.3400-02	7.2800-07
-3.4	9.4100-01	2.8400-07	2.6700-07	.0000+00	5.9000-02	5.5100-07
-3.2	9.5300-01	2.4000-07	1.7900-07	.0000+00	4.7300-02	4.1900-07
-3.0	9.6200-01	2.0100-07	1.1900-07	.0000+00	3.7800-02	3.2000-07
-2.8	9.7000-01	1.6700-07	7.8400-08	.0000+00	3.0200-02	2.4600-07
-2.6	9.7600-01	1.3800-07	5.1300-08	.0000+00	2.4100-02	1.8900-07
-2.4	9.8100-01	1.1300-07	3.3400-08	.0000+00	1.9200-02	1.4700-07
-2.2	9.8500-01	9.2500-08	2.1600-08	.0000+00	1.5300-02	1.1400-07
-2.0	9.8800-01	7.5100-08	1.4000-08	.0000+00	1.2200-02	8.9100-08
-1.8	9.9000-01	6.0800-08	8.9600-09	.0000+00	9.7100-03	6.9700-08
-1.6	9.9200-01	4.9000-08	5.7400-09	.0000+00	7.7300-03	5.4700-08
-1.4	9.9400-01	3.9400-08	3.6600-09	.0000+00	6.1400-03	4.3000-08
-1.2	9.9500-01	3.1600-08	2.3300-09	.0000+00	4.8900-03	3.3900-08
-1.0	9.9600-01	2.5300-08	1.4800-09	.0000+00	3.8800-03	2.6800-08
-.8	9.9700-01	2.0200-08	9.4200-10	.0000+00	3.0900-03	2.1200-08
-.6	9.9800-01	1.6100-08	5.9800-10	.0000+00	2.4500-03	1.6700-08
-.4	9.9800-01	1.2900-08	3.7900-10	.0000+00	1.9500-03	1.3300-08
-.2	9.9800-01	1.0300-08	2.4000-10	.0000+00	1.5500-03	1.0500-08
.0	9.9900-01	8.1800-09	1.5200-10	.0000+00	1.2300-03	8.3400-09
.2	9.9900-01	6.5200-09	9.6200-11	.0000+00	9.7600-04	6.6200-09
.4	9.9900-01	5.1900-09	6.0900-11	.0000+00	7.7500-04	5.2600-09
.6	9.9900-01	4.1400-09	3.8600-11	.0000+00	6.1500-04	4.1800-09
.8	1.0000+00	3.3000-09	2.4600-11	.0000+00	4.8800-04	3.3300-09
1.0	1.0000+00	2.6400-09	1.5700-11	.0000+00	3.8600-04	2.6600-09
1.2	1.0000+00	2.1200-09	1.0000-11	.0000+00	3.0500-04	2.1300-09
1.4	1.0000+00	1.7000-09	6.5000-12	.0000+00	2.4100-04	1.7100-09
1.6	1.0000+00	1.3800-09	4.2700-12	.0000+00	1.8900-04	1.3900-09
1.8	1.0000+00	1.1400-09	2.8700-12	.0000+00	1.4700-04	1.1400-09
2.0	1.0000+00	9.5300-10	2.0000-12	.0000+00	1.1300-04	9.5500-10
2.2	1.0000+00	8.2400-10	1.4800-12	.0000+00	8.5900-05	8.2600-10



T= 4300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.8220+00	2.4732+01	2.6554+01	7.1148+01	-5.5424+00	1.8220+00
-6.8	1.7593+00	2.3088+01	2.4847+01	6.8678+01	-5.3576+00	1.7593+00
-6.6	1.6873+00	2.1202+01	2.2889+01	6.5998+01	-5.1757+00	1.6873+00
-6.4	1.6098+00	1.9172+01	2.0781+01	6.3209+01	-4.9962+00	1.6098+00
-6.2	1.5310+00	1.7107+01	1.8638+01	6.0421+01	-4.8180+00	1.5310+00
-6.0	1.4548+00	1.5110+01	1.6565+01	5.7736+01	-4.6401+00	1.4548+00
-5.8	1.3840+00	1.3255+01	1.4639+01	5.5228+01	-4.4618+00	1.3840+00
-5.6	1.3204+00	1.1588+01	1.2909+01	5.2939+01	-4.2822+00	1.3204+00
-5.4	1.2647+00	1.0130+01	1.1394+01	5.0886+01	-4.1010+00	1.2647+00
-5.2	1.2170+00	8.8795+00	1.0096+01	4.9064+01	-3.9177+00	1.2170+00
-5.0	1.1767+00	7.8250+00	9.0017+00	4.7459+01	-3.7323+00	1.1767+00
-4.8	1.1432+00	6.9470+00	8.0902+00	4.6047+01	-3.5448+00	1.1432+00
-4.6	1.1156+00	6.2231+00	7.3386+00	4.4803+01	-3.3554+00	1.1156+00
-4.4	1.0930+00	5.6310+00	6.7239+00	4.3703+01	-3.1643+00	1.0930+00
-4.2	1.0746+00	5.1496+00	6.2242+00	4.2722+01	-2.9717+00	1.0746+00
-4.0	1.0597+00	4.7601+00	5.8198+00	4.1841+01	-2.7777+00	1.0597+00
-3.8	1.0477+00	4.4463+00	5.4940+00	4.1042+01	-2.5827+00	1.0477+00
-3.6	1.0381+00	4.1941+00	5.2322+00	4.0310+01	-2.3867+00	1.0381+00
-3.4	1.0304+00	3.9919+00	5.0223+00	3.9632+01	-2.1899+00	1.0304+00
-3.2	1.0242+00	3.8302+00	4.8544+00	3.8997+01	-1.9925+00	1.0242+00
-3.0	1.0193+00	3.7009+00	4.7202+00	3.8397+01	-1.7946+00	1.0193+00
-2.8	1.0154+00	3.5978+00	4.6132+00	3.7826+01	-1.5963+00	1.0153+00
-2.6	1.0122+00	3.5156+00	4.5278+00	3.7276+01	-1.3977+00	1.0122+00
-2.4	1.0097+00	3.4501+00	4.4599+00	3.6745+01	-1.1987+00	1.0097+00
-2.2	1.0077+00	3.3980+00	4.4057+00	3.6229+01	-9.9959-01	1.0077+00
-2.0	1.0062+00	3.3565+00	4.3627+00	3.5724+01	-8.0027-01	1.0061+00
-1.8	1.0049+00	3.3235+00	4.3284+00	3.5228+01	-6.0081-01	1.0049+00
-1.6	1.0039+00	3.2973+00	4.3012+00	3.4739+01	-4.0124-01	1.0039+00
-1.4	1.0031+00	3.2764+00	4.2796+00	3.4256+01	-2.0157-01	1.0031+00
-1.2	1.0025+00	3.2599+00	4.2624+00	3.3777+01	-1.8302-03	1.0024+00
-1.0	1.0021+00	3.2467+00	4.2488+00	3.3303+01	1.9797-01	1.0019+00
-.8	1.0018+00	3.2367+00	4.2380+00	3.2831+01	3.9784-01	1.0015+00
-.6	1.0016+00	3.2279+00	4.2295+00	3.2361+01	5.9776-01	1.0012+00
-.4	1.0016+00	3.2213+00	4.2229+00	3.1893+01	7.9774-01	1.0010+00
-.2	1.0017+00	3.2161+00	4.2178+00	3.1427+01	9.9780-01	1.0008+00
.0	1.0021+00	3.2119+00	4.2140+00	3.0961+01	1.1980+00	1.0006+00
.2	1.0028+00	3.2087+00	4.2115+00	3.0497+01	1.3983+00	1.0005+00
.4	1.0040+00	3.2062+00	4.2102+00	3.0032+01	1.5988+00	1.0004+00
.6	1.0061+00	3.2043+00	4.2103+00	2.9567+01	1.7997+00	1.0003+00
.8	1.0094+00	3.2029+00	4.2123+00	2.9102+01	2.0011+00	1.0002+00
1.0	1.0146+00	3.2021+00	4.2167+00	2.8635+01	2.2034+00	1.0002+00
1.2	1.0230+00	3.2018+00	4.2248+00	2.8166+01	2.4070+00	1.0002+00
1.4	1.0364+00	3.2021+00	4.2385+00	2.7692+01	2.6126+00	1.0001+00
1.6	1.0576+00	3.2034+00	4.2609+00	2.7212+01	2.8214+00	1.0001+00
1.8	1.0911+00	3.2058+00	4.2970+00	2.6720+01	3.0349+00	1.0001+00
2.0	1.1444+00	3.2102+00	4.3546+00	2.6210+01	3.2556+00	1.0001+00
2.2	1.2288+00	3.2175+00	4.4463+00	2.5673+01	3.4865+00	1.0000+00

T= 4400

LOG D	N2	N2+	N+	N++	N	E
-7.0	6.0500-02	5.2100-07	1.1300-04	.0000+00	9.3900-01	1.1400-04
-6.8	8.8100-02	6.1900-07	8.9700-05	.0000+00	9.1200-01	9.0300-05
-6.6	1.2500-01	7.2000-07	7.0800-05	.0000+00	8.7500-01	7.1600-05
-6.4	1.7000-01	8.1800-07	5.5800-05	.0000+00	8.3000-01	5.6600-05
-6.2	2.2500-01	9.0600-07	4.3700-05	.0000+00	7.7500-01	4.4600-05
-6.0	2.8700-01	9.7700-07	3.4000-05	.0000+00	7.1300-01	3.4900-05
-5.8	3.5500-01	1.0300-06	2.6200-05	.0000+00	6.4500-01	2.7200-05
-5.6	4.2500-01	1.0600-06	2.0000-05	.0000+00	5.7500-01	2.1100-05
-5.4	4.9500-01	1.0600-06	1.5100-05	.0000+00	5.0500-01	1.6200-05
-5.2	5.6200-01	1.0400-06	1.1300-05	.0000+00	4.3800-01	1.2400-05
-5.0	6.2600-01	1.0000-06	8.3800-06	.0000+00	3.7400-01	9.3800-06
-4.8	6.8400-01	9.4800-07	6.1300-06	.0000+00	3.1600-01	7.0800-06
-4.6	7.3600-01	8.8200-07	4.4400-06	.0000+00	2.6400-01	5.3200-06
-4.4	7.8100-01	8.0900-07	3.1800-06	.0000+00	2.1900-01	3.9900-06
-4.2	8.2000-01	7.3200-07	2.2500-06	.0000+00	1.8000-01	2.9900-06
-4.0	8.5300-01	6.5300-07	1.5800-06	.0000+00	1.4700-01	2.2300-06
-3.8	8.8000-01	5.7600-07	1.1000-06	.0000+00	1.2000-01	1.6700-06
-3.6	9.0300-01	5.0200-07	7.5600-07	.0000+00	9.7000-02	1.2600-06
-3.4	9.2200-01	4.3400-07	5.1500-07	.0000+00	7.8200-02	9.4800-07
-3.2	9.3700-01	3.7000-07	3.4800-07	.0000+00	6.2900-02	7.1800-07
-3.0	9.5000-01	3.1300-07	2.3300-07	.0000+00	5.0400-02	5.4600-07
-2.8	9.6000-01	2.6300-07	1.5500-07	.0000+00	4.0400-02	4.1700-07
-2.6	9.6800-01	2.1900-07	1.0200-07	.0000+00	3.2300-02	3.2100-07
-2.4	9.7400-01	1.8100-07	6.6800-08	.0000+00	2.5800-02	2.4700-07
-2.2	9.7900-01	1.4800-07	4.3500-08	.0000+00	2.0600-02	1.9200-07
-2.0	9.8400-01	1.2100-07	2.8200-08	.0000+00	1.6400-02	1.4900-07
-1.8	9.8700-01	9.8200-08	1.8200-08	.0000+00	1.3000-02	1.1600-07
-1.6	9.9000-01	7.9500-08	1.1700-08	.0000+00	1.0400-02	9.1200-08
-1.4	9.9200-01	6.4100-08	7.4700-09	.0000+00	8.2600-03	7.1600-08
-1.2	9.9300-01	5.1500-08	4.7700-09	.0000+00	6.5700-03	5.6300-08
-1.0	9.9500-01	4.1300-08	3.0400-09	.0000+00	5.2200-03	4.4400-08
-.8	9.9600-01	3.3100-08	1.9300-09	.0000+00	4.1500-03	3.5000-08
-.6	9.9700-01	2.6500-08	1.2300-09	.0000+00	3.3000-03	2.7700-08
-.4	9.9700-01	2.1100-08	7.7800-10	.0000+00	2.6200-03	2.1900-08
-.2	9.9800-01	1.6900-08	4.9300-10	.0000+00	2.0800-03	1.7400-08
.0	9.9800-01	1.3400-08	3.1300-10	.0000+00	1.6500-03	1.3800-08
.2	9.9900-01	1.0700-08	1.9800-10	.0000+00	1.3100-03	1.0900-08
.4	9.9900-01	8.5400-09	1.2600-10	.0000+00	1.0400-03	8.6700-09
.6	9.9900-01	6.8100-09	7.9600-11	.0000+00	8.2800-04	6.8900-09
.8	9.9900-01	5.4400-09	5.0600-11	.0000+00	6.5600-04	5.4900-09
1.0	9.9900-01	4.3500-09	3.2300-11	.0000+00	5.2000-04	4.3800-09
1.2	1.0000+00	3.4800-09	2.0700-11	.0000+00	4.1100-04	3.5100-09
1.4	1.0000+00	2.8100-09	1.3400-11	.0000+00	3.2400-04	2.8200-09
1.6	1.0000+00	2.2800-09	8.7800-12	.0000+00	2.5400-04	2.2900-09
1.8	1.0000+00	1.8700-09	5.8900-12	.0000+00	1.9800-04	1.8800-09
2.0	1.0000+00	1.5700-09	4.0900-12	.0000+00	1.5300-04	1.5700-09
2.2	1.0000+00	1.3600-09	3.0000-12	.0000+00	1.1600-04	1.3600-09

T= 4400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.8861+00	2.5888+01	2.7775+01	7.2887+01	-5.5174+00	1.8861+00
-6.8	1.8383+00	2.4663+01	2.6502+01	7.0804+01	-5.3285+00	1.8383+00
-6.6	1.7787+00	2.3138+01	2.4916+01	6.8445+01	-5.1428+00	1.7787+00
-6.4	1.7091+00	2.1355+01	2.3064+01	6.5859+01	-4.9602+00	1.7091+00
-6.2	1.6327+00	1.9401+01	2.1034+01	6.3135+01	-4.7800+00	1.6327+00
-6.0	1.5539+00	1.7383+01	1.8936+01	6.0383+01	-4.6015+00	1.5539+00
-5.8	1.4766+00	1.5403+01	1.6879+01	5.7705+01	-4.4237+00	1.4766+00
-5.6	1.4039+00	1.3544+01	1.4949+01	5.5183+01	-4.2456+00	1.4039+00
-5.4	1.3381+00	1.1858+01	1.3196+01	5.2867+01	-4.0665+00	1.3381+00
-5.2	1.2801+00	1.0373+01	1.1653+01	5.0779+01	-3.8857+00	1.2801+00
-5.0	1.2301+00	9.0927+00	1.0323+01	4.8921+01	-3.7030+00	1.2301+00
-4.8	1.1877+00	8.0083+00	9.1960+00	4.7280+01	-3.5182+00	1.1877+00
-4.6	1.1523+00	7.1022+00	8.2545+00	4.5835+01	-3.3314+00	1.1523+00
-4.4	1.1231+00	6.3532+00	7.4763+00	4.4563+01	-3.1425+00	1.1231+00
-4.2	1.0991+00	5.7392+00	6.8383+00	4.3437+01	-2.9519+00	1.0991+00
-4.0	1.0795+00	5.2393+00	6.3188+00	4.2436+01	-2.7597+00	1.0795+00
-3.8	1.0637+00	4.8343+00	5.8980+00	4.1537+01	-2.5661+00	1.0637+00
-3.6	1.0510+00	4.5076+00	5.5585+00	4.0724+01	-2.3714+00	1.0510+00
-3.4	1.0407+00	4.2448+00	5.2855+00	3.9980+01	-2.1756+00	1.0407+00
-3.2	1.0325+00	4.0341+00	5.0665+00	3.9291+01	-1.9791+00	1.0325+00
-3.0	1.0259+00	3.8654+00	4.8912+00	3.8649+01	-1.7819+00	1.0259+00
-2.8	1.0206+00	3.7305+00	4.7511+00	3.8043+01	-1.5841+00	1.0206+00
-2.6	1.0164+00	3.6229+00	4.6393+00	3.7466+01	-1.3859+00	1.0164+00
-2.4	1.0131+00	3.5371+00	4.5502+00	3.6913+01	-1.1873+00	1.0131+00
-2.2	1.0104+00	3.4687+00	4.4791+00	3.6379+01	-9.8846-01	1.0104+00
-2.0	1.0083+00	3.4143+00	4.4225+00	3.5860+01	-7.8937-01	1.0083+00
-1.8	1.0066+00	3.3709+00	4.3775+00	3.5352+01	-5.9010-01	1.0066+00
-1.6	1.0053+00	3.3365+00	4.3417+00	3.4855+01	-3.9067-01	1.0052+00
-1.4	1.0042+00	3.3091+00	4.3133+00	3.4365+01	-1.9113-01	1.0041+00
-1.2	1.0034+00	3.2873+00	4.2907+00	3.3881+01	8.5207-03	1.0033+00
-1.0	1.0028+00	3.2699+00	4.2727+00	3.3401+01	2.0825-01	1.0026+00
-.8	1.0023+00	3.2562+00	4.2585+00	3.2926+01	4.0805-01	1.0021+00
-.6	1.0020+00	3.2452+00	4.2473+00	3.2453+01	6.0793-01	1.0017+00
-.4	1.0019+00	3.2366+00	4.2385+00	3.1983+01	8.0787-01	1.0013+00
-.2	1.0020+00	3.2297+00	4.2316+00	3.1515+01	1.0079+00	1.0010+00
.0	1.0023+00	3.2242+00	4.2265+00	3.1048+01	1.2080+00	1.0008+00
.2	1.0029+00	3.2199+00	4.2229+00	3.0582+01	1.4083+00	1.0007+00
.4	1.0041+00	3.2166+00	4.2207+00	3.0117+01	1.6088+00	1.0005+00
.6	1.0062+00	3.2140+00	4.2202+00	2.9651+01	1.8097+00	1.0004+00
.8	1.0094+00	3.2122+00	4.2216+00	2.9185+01	2.0111+00	1.0003+00
1.0	1.0147+00	3.2109+00	4.2256+00	2.8718+01	2.2134+00	1.0003+00
1.2	1.0230+00	3.2103+00	4.2333+00	2.8248+01	2.4169+00	1.0002+00
1.4	1.0363+00	3.2104+00	4.2468+00	2.7775+01	2.6226+00	1.0002+00
1.6	1.0575+00	3.2115+00	4.2690+00	2.7294+01	2.8313+00	1.0001+00
1.8	1.0910+00	3.2139+00	4.3049+00	2.6802+01	3.0449+00	1.0001+00
2.0	1.1441+00	3.2182+00	4.3623+00	2.6293+01	3.2655+00	1.0001+00
2.2	1.2283+00	3.2256+00	4.4539+00	2.5755+01	3.4964+00	1.0001+00

T= 4500

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.6800-02	5.1800-07	1.7700-04	.0000+00	9.6300-01	1.7700-04
-6.8	5.5200-02	6.2800-07	1.4000-04	.0000+00	9.4500-01	1.4100-04
-6.6	8.0800-02	7.4800-07	1.1100-04	.0000+00	9.1900-01	1.1200-04
-6.4	1.1500-01	8.7500-07	8.7700-05	.0000+00	8.8500-01	8.8600-05
-6.2	1.5900-01	9.9900-07	6.9100-05	.0000+00	8.4100-01	7.0100-05
-6.0	2.1100-01	1.1100-06	5.4200-05	.0000+00	7.8900-01	5.5300-05
-5.8	2.7200-01	1.2100-06	4.2200-05	.0000+00	7.2800-01	4.3400-05
-5.6	3.3800-01	1.2800-06	3.7600-05	.0000+00	6.6200-01	3.3900-05
-5.4	4.0800-01	1.3200-06	2.5000-05	.0000+00	5.9200-01	2.6300-05
-5.2	4.7800-01	1.3300-06	1.8900-05	.0000+00	5.2200-01	2.0300-05
-5.0	5.4700-01	1.3100-06	1.4200-05	.0000+00	4.5300-01	1.5500-05
-4.8	6.1100-01	1.2700-06	1.0500-05	.0000+00	3.8900-01	1.1800-05
-4.6	6.7100-01	1.2000-06	7.7100-06	.0000+00	3.2900-01	8.9100-06
-4.4	7.2400-01	1.1200-06	5.5900-06	.0000+00	2.7600-01	6.7100-06
-4.2	7.7100-01	1.0300-06	4.0100-06	.0000+00	2.2900-01	5.0400-06
-4.0	8.1100-01	9.3600-07	2.8400-06	.0000+00	1.8900-01	3.7800-06
-3.8	8.4500-01	8.3600-07	1.9900-06	.0000+00	1.5500-01	2.8300-06
-3.6	8.7400-01	7.3800-07	1.3900-06	.0000+00	1.2600-01	2.1200-06
-3.4	8.9800-01	6.4400-07	9.5400-07	.0000+00	1.0200-01	1.6000-06
-3.2	9.1800-01	5.5600-07	6.5000-07	.0000+00	8.2300-02	1.2100-06
-3.0	9.3400-01	4.7500-07	4.3900-07	.0000+00	6.6200-02	9.1400-07
-2.8	9.4700-01	4.0200-07	2.9400-07	.0000+00	5.3200-02	6.9600-07
-2.6	9.5700-01	3.3700-07	1.9500-07	.0000+00	4.2600-02	5.3300-07
-2.4	9.6600-01	2.8000-07	1.2900-07	.0000+00	3.4000-02	4.0900-07
-2.2	9.7300-01	2.3200-07	8.4400-08	.0000+00	2.7200-02	3.1600-07
-2.0	9.7800-01	1.9000-07	5.4900-08	.0000+00	2.1700-02	2.4500-07
-1.8	9.8300-01	1.5500-07	3.5600-08	.0000+00	1.7300-02	1.9100-07
-1.6	9.8600-01	1.2600-07	2.2900-08	.0000+00	1.3800-02	1.4900-07
-1.4	9.8900-01	1.0200-07	1.4700-08	.0000+00	1.1000-02	1.1700-07
-1.2	9.9100-01	8.2200-08	9.4300-09	.0000+00	8.7200-03	9.1600-08
-1.0	9.9300-01	6.6100-08	6.0200-09	.0000+00	6.9300-03	7.2100-08
-.8	9.9400-01	5.3000-08	3.8300-09	.0000+00	5.5100-03	5.6800-08
-.6	9.9600-01	4.2400-08	2.4400-09	.0000+00	4.3800-03	4.4900-08
-.4	9.9700-01	3.3900-08	1.5500-09	.0000+00	3.4800-03	3.5500-08
-.2	9.9700-01	2.7100-08	9.8200-10	.0000+00	2.7700-03	2.8100-08
.0	9.9800-01	2.1600-08	6.2300-10	.0000+00	2.2000-03	2.2300-08
.2	9.9800-01	1.7300-08	3.9500-10	.0000+00	1.7500-03	1.7600-08
.4	9.9900-01	1.3800-08	2.5000-10	.0000+00	1.3900-03	1.4000-08
.6	9.9900-01	1.1000-08	1.5900-10	.0000+00	1.1000-03	1.1100-08
.8	9.9900-01	8.7600-09	1.0100-10	.0000+00	8.7300-04	8.8600-09
1.0	9.9900-01	7.0100-09	6.4400-11	.0000+00	6.9100-04	7.0700-09
1.2	9.9900-01	5.6200-09	4.1300-11	.0000+00	5.4600-04	5.6600-09
1.4	1.0000+00	4.5300-09	2.6700-11	.0000+00	4.3100-04	4.5500-09
1.6	1.0000+00	3.6800-09	1.7500-11	.0000+00	3.3800-04	3.6900-09
1.8	1.0000+00	3.0200-09	1.1700-11	.0000+00	2.6400-04	3.0300-09
2.0	1.0000+00	2.5300-09	8.0900-12	.0000+00	2.0300-04	2.5400-09
2.2	1.0000+00	2.1900-09	5.9100-12	.0000+00	1.5400-04	2.1400-09

T= 4500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.9293+00	2.6473+01	2.8403+01	7.4061+01	-5.4978+00	1.9293+00
-6.8	1.8957+00	2.5631+01	2.7526+01	7.2337+01	-5.3054+00	1.8957+00
-6.6	1.8507+00	2.4504+01	2.6354+01	7.0347+01	-5.1159+00	1.8507+00
-6.4	1.7938+00	2.3079+01	2.4873+01	6.8083+01	-4.9294+00	1.7938+00
-6.2	1.7263+00	2.1389+01	2.3116+01	6.5582+01	-4.7461+00	1.7263+00
-6.0	1.6512+00	1.9509+01	2.1161+01	6.2924+01	-4.5654+00	1.6512+00
-5.8	1.5726+00	1.7541+01	1.9114+01	6.0214+01	-4.3866+00	1.5726+00
-5.6	1.4946+00	1.5588+01	1.7083+01	5.7555+01	-4.2087+00	1.4946+00
-5.4	1.4206+00	1.3737+01	1.5158+01	5.5033+01	-4.0307+00	1.4206+00
-5.2	1.3530+00	1.2046+01	1.3399+01	5.2703+01	-3.8519+00	1.3530+00
-5.0	1.2931+00	1.0546+01	1.1840+01	5.0594+01	-3.6716+00	1.2931+00
-4.8	1.2412+00	9.2477+00	1.0489+01	4.8712+01	-3.4893+00	1.2412+00
-4.6	1.1971+00	8.1434+00	9.3405+00	4.7047+01	-3.3051+00	1.1971+00
-4.4	1.1601+00	7.2181+00	8.3782+00	4.5579+01	-3.1187+00	1.1601+00
-4.2	1.1295+00	6.4514+00	7.5809+00	4.4286+01	-2.9303+00	1.1295+00
-4.0	1.1043+00	5.8218+00	6.9262+00	4.3142+01	-2.7401+00	1.1043+00
-3.8	1.0838+00	5.3084+00	6.3923+00	4.2125+01	-2.5482+00	1.0838+00
-3.6	1.0672+00	4.9921+00	5.9593+00	4.1213+01	-2.3550+00	1.0672+00
-3.4	1.0537+00	4.5559+00	5.6095+00	4.0389+01	-2.1605+00	1.0537+00
-3.2	1.0429+00	4.2953+00	5.3283+00	3.9636+01	-1.9649+00	1.0429+00
-3.0	1.0343+00	4.0682+00	5.1025+00	3.8940+01	-1.7686+00	1.0343+00
-2.8	1.0273+00	3.8943+00	4.9216+00	3.8292+01	-1.5715+00	1.0273+00
-2.6	1.0218+00	3.7553+00	4.7771+00	3.7681+01	-1.3738+00	1.0218+00
-2.4	1.0173+00	3.6443+00	4.6617+00	3.7100+01	-1.1757+00	1.0173+00
-2.2	1.0138+00	3.5558+00	4.5696+00	3.6544+01	-9.7724-01	1.0138+00
-2.0	1.0110+00	3.4853+00	4.4962+00	3.6008+01	-7.7845-01	1.0110+00
-1.8	1.0087+00	3.4291+00	4.4378+00	3.5486+01	-5.7941-01	1.0087+00
-1.6	1.0070+00	3.3844+00	4.3913+00	3.4978+01	-3.8017-01	1.0069+00
-1.4	1.0056+00	3.3488+00	4.3544+00	3.4479+01	-1.8078-01	1.0055+00
-1.2	1.0045+00	3.3205+00	4.3250+00	3.3987+01	1.8749-02	1.0044+00
-1.0	1.0036+00	3.2980+00	4.3016+00	3.3503+01	2.1838-01	1.0035+00
-.8	1.0030+00	3.2801+00	4.2831+00	3.3023+01	4.1811-01	1.0028+00
-.6	1.0026+00	3.2659+00	4.2685+00	3.2547+01	6.1792-01	1.0022+00
-.4	1.0023+00	3.2546+00	4.2569+00	3.2074+01	8.1782-01	1.0017+00
-.2	1.0023+00	3.2457+00	4.2480+00	3.1603+01	1.0178+00	1.0014+00
.0	1.0025+00	3.2386+00	4.2411+00	3.1135+01	1.2179+00	1.0011+00
.2	1.0032+00	3.2330+00	4.2362+00	3.0667+01	1.4182+00	1.0009+00
.4	1.0043+00	3.2286+00	4.2329+00	3.0201+01	1.6187+00	1.0007+00
.6	1.0063+00	3.2252+00	4.2315+00	2.9734+01	1.8195+00	1.0006+00
.8	1.0095+00	3.2227+00	4.2322+00	2.9268+01	2.0209+00	1.0004+00
1.0	1.0147+00	3.2209+00	4.2357+00	2.8800+01	2.2232+00	1.0003+00
1.2	1.0231+00	3.2199+00	4.2430+00	2.8330+01	2.4267+00	1.0003+00
1.4	1.0363+00	3.2197+00	4.2561+00	2.7856+01	2.6323+00	1.0002+00
1.6	1.0574+00	3.2206+00	4.2780+00	2.7375+01	2.8410+00	1.0002+00
1.8	1.0909+00	3.2229+00	4.3137+00	2.6883+01	3.0546+00	1.0001+00
2.0	1.1438+00	3.2272+00	4.3710+00	2.6374+01	3.2752+00	1.0001+00
2.2	1.2277+00	3.2346+00	4.4624+00	2.5836+01	3.5060+00	1.0001+00

T= 4600

LOG D	N2	V2+	N+	N++	N	E
-7.0	2.2300-02	5.0600-07	2.7000-04	.0000+00	9.7700-01	2.7100-04
-6.8	3.4100-02	6.2200-07	2.1400-04	.0000+00	9.6500-01	2.1500-04
-6.6	5.1300-02	7.5500-07	1.7000-04	.0000+00	9.4800-01	1.7100-04
-6.4	7.5500-02	9.0300-07	1.3500-04	.0000+00	9.2400-01	1.3600-04
-6.2	1.0800-01	1.0600-06	1.0700-04	.0000+00	8.9200-01	1.0800-04
-6.0	1.5000-01	1.2200-06	8.4000-05	.0000+00	8.5000-01	8.5200-05
-5.8	2.0100-01	1.3600-06	6.5900-05	.0000+00	7.9900-01	6.7300-05
-5.6	2.6000-01	1.4800-06	5.1400-05	.0000+00	7.4000-01	5.2900-05
-5.4	3.2600-01	1.5800-06	3.9800-05	.0000+00	6.7400-01	4.1300-05
-5.2	3.9500-01	1.6300-06	3.0500-05	.0000+00	6.0500-01	3.2100-05
-5.0	4.6600-01	1.6500-06	2.3100-05	.0000+00	5.3400-01	2.4800-05
-4.8	5.3500-01	1.6400-06	1.7400-05	.0000+00	4.6500-01	1.9000-05
-4.6	6.0000-01	1.5900-06	1.2900-05	.0000+00	4.0000-01	1.4500-05
-4.4	6.6000-01	1.5100-06	9.4600-06	.0000+00	3.4000-01	1.1000-05
-4.2	7.1500-01	1.4100-06	6.8600-06	.0000+00	2.8500-01	8.2700-06
-4.0	7.6300-01	1.3000-06	4.9200-06	.0000+00	2.3700-01	6.2200-06
-3.8	8.0400-01	1.1800-06	3.4900-06	.0000+00	1.9600-01	4.6700-06
-3.6	8.4000-01	1.0500-06	2.4500-06	.0000+00	1.6000-01	3.5100-06
-3.4	8.6900-01	9.3000-07	1.7100-06	.0000+00	1.3100-01	2.6400-06
-3.2	8.9400-01	8.1200-07	1.1700-06	.0000+00	1.0600-01	1.9900-06
-3.0	9.1400-01	7.0100-07	8.0000-07	.0000+00	8.5600-02	1.5000-06
-2.8	9.3100-01	5.9800-07	5.4000-07	.0000+00	6.8900-02	1.1400-06
-2.6	9.4500-01	5.0600-07	3.6200-07	.0000+00	5.5300-02	8.6800-07
-2.4	9.5600-01	4.2400-07	2.4000-07	.0000+00	4.4300-02	6.6400-07
-2.2	9.6500-01	3.5300-07	1.5800-07	.0000+00	3.5500-02	5.1100-07
-2.0	9.7200-01	2.9100-07	1.0400-07	.0000+00	2.8300-02	3.9500-07
-1.8	9.7700-01	2.3900-07	6.7400-08	.0000+00	2.2600-02	3.0600-07
-1.6	9.8200-01	1.9500-07	4.3600-08	.0000+00	1.8000-02	2.3900-07
-1.4	9.8600-01	1.5800-07	2.8100-08	.0000+00	1.4300-02	1.8600-07
-1.2	9.8900-01	1.2800-07	1.8000-08	.0000+00	1.1400-02	1.4600-07
-1.0	9.9100-01	1.0300-07	1.1600-08	.0000+00	9.0900-03	1.1500-07
-.8	9.9300-01	8.3000-08	7.3700-09	.0000+00	7.2300-03	9.0400-08
-.6	9.9400-01	6.6600-08	4.7000-09	.0000+00	5.7500-03	7.1300-08
-.4	9.9500-01	5.3300-08	2.9900-09	.0000+00	4.5700-03	5.6300-08
-.2	9.9600-01	4.2600-08	1.9000-09	.0000+00	3.6300-03	4.4500-08
.0	9.9700-01	3.4000-08	1.2000-09	.0000+00	2.8800-03	3.5300-08
.2	9.9800-01	2.7200-08	7.6300-10	.0000+00	2.2900-03	2.7900-08
.4	9.9800-01	2.1700-08	4.8400-10	.0000+00	1.8200-03	2.2200-08
.6	9.9900-01	1.7300-08	3.0700-10	.0000+00	1.4400-03	1.7600-08
.8	9.9900-01	1.3800-08	1.9500-10	.0000+00	1.1400-03	1.4000-08
1.0	9.9900-01	1.1100-08	1.2500-10	.0000+00	9.0700-04	1.1200-08
1.2	9.9900-01	8.8700-09	7.9900-11	.0000+00	7.1700-04	8.9500-09
1.4	9.9900-01	7.1500-09	5.1600-11	.0000+00	5.6500-04	7.2000-09
1.6	1.0000+00	5.8000-09	3.3700-11	.0000+00	4.4400-04	5.8400-09
1.8	1.0000+00	4.7700-09	2.2500-11	.0000+00	3.4600-04	4.7900-09
2.0	1.0000+00	4.0000-09	1.5600-11	.0000+00	2.6700-04	4.0100-09
2.2	1.0000+00	3.4600-09	1.1300-11	.0000+00	2.0200-04	3.4700-09

T= 4600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.9569+00	2.6649+01	2.8606+01	7.4821+01	-5.4821+00	1.9569+00
-6.8	1.9344+00	2.6098+01	2.8032+01	7.3373+01	-5.2871+00	1.9344+00
-6.6	1.9026+00	2.5319+01	2.7222+01	7.1711+01	-5.0943+00	1.9026+00
-6.4	1.8598+00	2.4268+01	2.6128+01	6.9794+01	-4.9042+00	1.8598+00
-6.2	1.8050+00	2.2926+01	2.4731+01	6.7607+01	-4.7172+00	1.8050+00
-6.0	1.7392+00	2.1316+01	2.3055+01	6.5180+01	-4.5333+00	1.7392+00
-5.8	1.6652+00	1.9503+01	2.1169+01	6.2584+01	-4.3522+00	1.6652+00
-5.6	1.5869+00	1.7586+01	1.9173+01	5.9917+01	-4.1731+00	1.5869+00
-5.4	1.5085+00	1.5666+01	1.7174+01	5.7284+01	-3.9951+00	1.5085+00
-5.2	1.4335+00	1.3832+01	1.5265+01	5.4773+01	-3.8172+00	1.4335+00
-5.0	1.3647+00	1.2146+01	1.3511+01	5.2443+01	-3.6386+00	1.3647+00
-4.8	1.3033+00	1.0644+01	1.1947+01	5.0327+01	-3.4586+00	1.3033+00
-4.6	1.2500+00	9.3382+00	1.0588+01	4.8434+01	-3.2767+00	1.2500+00
-4.4	1.2045+00	8.2245+00	9.4290+00	4.6755+01	-3.0928+00	1.2045+00
-4.2	1.1663+00	7.7891+00	8.4554+00	4.5274+01	-2.9068+00	1.1663+00
-4.0	1.1346+00	6.5126+00	7.6472+00	4.3968+01	-2.7188+00	1.1346+00
-3.8	1.1085+00	5.8741+00	6.9826+00	4.2813+01	-2.5289+00	1.1085+00
-3.6	1.0872+00	5.3528+00	6.4400+00	4.1787+01	-2.3373+00	1.0872+00
-3.4	1.0699+00	4.9296+00	5.9995+00	4.0867+01	-2.1443+00	1.0699+00
-3.2	1.0560+00	4.5877+00	5.6436+00	4.0036+01	-1.9500+00	1.0560+00
-3.0	1.0447+00	4.3124+00	5.3571+00	3.9277+01	-1.7546+00	1.0447+00
-2.8	1.0357+00	4.0913+00	5.1270+00	3.8577+01	-1.5584+00	1.0357+00
-2.6	1.0285+00	3.9142+00	4.9427+00	3.7924+01	-1.3615+00	1.0285+00
-2.4	1.0227+00	3.7726+00	4.7953+00	3.7311+01	-1.1639+00	1.0227+00
-2.2	1.0181+00	3.6595+00	4.6776+00	3.6728+01	-9.6587-01	1.0180+00
-2.0	1.0144+00	3.5693+00	4.5837+00	3.6170+01	-7.6744-01	1.0144+00
-1.8	1.0114+00	3.4974+00	4.5089+00	3.5631+01	-5.6870-01	1.0114+00
-1.6	1.0091+00	3.4401+00	4.4493+00	3.5109+01	-3.6970-01	1.0091+00
-1.4	1.0073+00	3.3946+00	4.4018+00	3.4599+01	-1.7049-01	1.0072+00
-1.2	1.0058+00	3.3583+00	4.3641+00	3.4099+01	2.8884-02	1.0057+00
-1.0	1.0047+00	3.3295+00	4.3342+00	3.3607+01	2.2840-01	1.0046+00
-.8	1.0039+00	3.3065+00	4.3104+00	3.3122+01	4.2803-01	1.0036+00
-.6	1.0032+00	3.2883+00	4.2915+00	3.2641+01	6.2776-01	1.0029+00
-.4	1.0029+00	3.2738+00	4.2767+00	3.2165+01	8.2760-01	1.0023+00
-.2	1.0027+00	3.2623+00	4.2650+00	3.1692+01	1.0275+00	1.0018+00
.0	1.0029+00	3.2532+00	4.2561+00	3.1221+01	1.2276+00	1.0014+00
.2	1.0034+00	3.2460+00	4.2494+00	3.0752+01	1.4278+00	1.0011+00
.4	1.0045+00	3.2403+00	4.2449+00	3.0284+01	1.6283+00	1.0009+00
.6	1.0064+00	3.2360+00	4.2424+00	2.9816+01	1.8291+00	1.0007+00
.8	1.0096+00	3.2326+00	4.2422+00	2.9349+01	2.0305+00	1.0006+00
1.0	1.0148+00	3.2302+00	4.2450+00	2.8880+01	2.2327+00	1.0005+00
1.2	1.0231+00	3.2287+00	4.2518+00	2.8410+01	2.4363+00	1.0004+00
1.4	1.0363+00	3.2282+00	4.2645+00	2.7935+01	2.6419+00	1.0003+00
1.6	1.0573+00	3.2287+00	4.2861+00	2.7454+01	2.8506+00	1.0002+00
1.8	1.0907+00	3.2308+00	4.3215+00	2.6962+01	3.0641+00	1.0002+00
2.0	1.1436+00	3.2350+00	4.3786+00	2.6453+01	3.2846+00	1.0001+00
2.2	1.2274+00	3.2424+00	4.4698+00	2.5916+01	3.5154+00	1.0001+00

T= 4700

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.3600-02	4.9000-07	4.0600-04	.0000+00	9.8600-01	4.0600-04
-6.8	2.1100-02	6.0800-07	3.2200-04	.0000+00	9.7800-01	3.2300-04
-6.6	3.2300-02	7.4800-07	2.5600-04	.0000+00	9.6700-01	2.5600-04
-6.4	4.8700-02	9.1000-07	2.0300-04	.0000+00	9.5100-01	2.0400-04
-6.2	7.1900-02	1.0900-06	1.6100-04	.0000+00	9.2800-01	1.6200-04
-6.0	1.0300-01	1.2800-06	1.2700-04	.0000+00	8.9600-01	1.2800-04
-5.8	1.4400-01	1.4800-06	1.0000-04	.0000+00	8.5600-01	1.0200-04
-5.6	1.9400-01	1.6600-06	7.8700-05	.0000+00	8.0600-01	8.0300-05
-5.4	2.5200-01	1.8100-06	6.1400-05	.0000+00	7.4800-01	6.3200-05
-5.2	3.1700-01	1.9300-06	4.7500-05	.0000+00	6.8300-01	4.9500-05
-5.0	3.8600-01	2.0100-06	3.6500-05	.0000+00	6.1400-01	3.8500-05
-4.8	4.5600-01	2.0400-06	2.7700-05	.0000+00	5.4400-01	2.9700-05
-4.6	5.2600-01	2.0700-06	2.0800-05	.0000+00	4.7400-01	2.2800-05
-4.4	5.9200-01	1.9600-06	1.5500-05	.0000+00	4.0800-01	1.7400-05
-4.2	6.5300-01	1.8700-06	1.1400-05	.0000+00	3.4700-01	1.3200-05
-4.0	7.0800-01	1.7500-06	8.2400-06	.0000+00	2.9200-01	9.9900-06
-3.8	7.5700-01	1.6100-06	5.9100-06	.0000+00	2.4300-01	7.5200-06
-3.6	7.9900-01	1.4600-06	4.2000-06	.0000+00	2.0100-01	5.6600-06
-3.4	8.3500-01	1.3100-06	2.9500-06	.0000+00	1.6500-01	4.2500-06
-3.2	8.6600-01	1.1500-06	2.0500-06	.0000+00	1.3400-01	3.2000-06
-3.0	8.9100-01	1.0100-06	1.4100-06	.0000+00	1.0900-01	2.4200-06
-2.8	9.1200-01	8.6900-07	9.5900-07	.0000+00	8.8000-02	1.8300-06
-2.6	9.2900-01	7.4200-07	6.4700-07	.0000+00	7.0900-02	1.3900-06
-2.4	9.4300-01	6.2700-07	4.3300-07	.0000+00	5.6900-02	1.0600-06
-2.2	9.5400-01	5.2500-07	2.8700-07	.0000+00	4.5600-02	8.1300-07
-2.0	9.6300-01	4.3700-07	1.8900-07	.0000+00	3.6500-02	6.2600-07
-1.8	9.7100-01	3.6000-07	1.2400-07	.0000+00	2.9200-02	4.8400-07
-1.6	9.7700-01	2.9500-07	8.0500-08	.0000+00	2.3300-02	3.7600-07
-1.4	9.8100-01	2.4100-07	5.2000-08	.0000+00	1.8500-02	2.9300-07
-1.2	9.8500-01	1.9600-07	3.3500-08	.0000+00	1.4800-02	2.2900-07
-1.0	9.8800-01	1.5800-07	2.1500-08	.0000+00	1.1800-02	1.8000-07
-.8	9.9100-01	1.2700-07	1.3800-08	.0000+00	9.3600-03	1.4100-07
-.6	9.9300-01	1.0200-07	8.7800-09	.0000+00	7.4500-03	1.1100-07
-.4	9.9400-01	8.2100-08	5.5900-09	.0000+00	5.9200-03	8.7700-08
-.2	9.9500-01	6.5800-08	3.5600-09	.0000+00	4.7100-03	6.9300-08
.0	9.9600-01	5.2600-08	2.2600-09	.0000+00	3.7400-03	5.4800-08
.2	9.9700-01	4.2000-08	1.4300-09	.0000+00	2.9700-03	4.3400-08
.4	9.9800-01	3.3500-08	9.1100-10	.0000+00	2.3600-03	3.4500-08
.6	9.9800-01	2.6800-08	5.7800-10	.0000+00	1.8700-03	2.7400-08
.8	9.9900-01	2.1400-08	3.6800-10	.0000+00	1.4900-03	2.1800-08
1.0	9.9900-01	1.7100-08	2.3400-10	.0000+00	1.1800-03	1.7400-08
1.2	9.9900-01	1.3700-08	1.5000-10	.0000+00	9.3000-04	1.3900-08
1.4	9.9900-01	1.1100-08	9.7000-11	.0000+00	7.3300-04	1.1200-08
1.6	9.9900-01	9.0000-09	6.3400-11	.0000+00	5.7600-04	9.0600-09
1.8	1.0000+00	7.4000-09	4.2200-11	.0000+00	4.4900-04	7.4400-09
2.0	1.0000+00	6.2000-09	2.9100-11	.0000+00	3.4600-04	6.2300-09
2.2	1.0000+00	5.3600-09	2.1000-11	.0000+00	2.6200-04	5.3800-09



T= 4700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.9739+00	2.6569+01	2.8543+01	7.5314+01	-5.4690+00	1.9739+00
-6.8	1.9593+00	2.6217+01	2.8176+01	7.4055+01	-5.2722+00	1.9593+00
-6.6	1.9379+00	2.5701+01	2.7639+01	7.2642+01	-5.0770+00	1.9379+00
-6.4	1.9074+00	2.4971+01	2.6878+01	7.1026+01	-4.8819+00	1.9074+00
-6.2	1.8661+00	2.3978+01	2.5844+01	6.9164+01	-4.6934+00	1.8661+00
-6.0	1.8128+00	2.2702+01	2.4514+01	6.7040+01	-4.5059+00	1.8128+00
-5.8	1.7484+00	2.1156+01	2.2905+01	6.4674+01	-4.3217+00	1.7484+00
-5.6	1.6752+00	1.9403+01	2.1078+01	6.2133+01	-4.1402+00	1.6752+00
-5.4	1.5972+00	1.7534+01	1.9131+01	5.9510+01	-3.9609+00	1.5972+00
-5.2	1.5186+00	1.5649+01	1.7168+01	5.6908+01	-3.7829+00	1.5186+00
-5.0	1.4430+00	1.3839+01	1.5282+01	5.4416+01	-3.6050+00	1.4430+00
-4.8	1.3733+00	1.2168+01	1.3541+01	5.2097+01	-3.4265+00	1.3733+00
-4.6	1.3109+00	1.0674+01	1.1984+01	4.9984+01	-3.2467+00	1.3109+00
-4.4	1.2565+00	9.3704+00	1.0627+01	4.8090+01	-3.0651+00	1.2565+00
-4.2	1.2100+00	8.2565+00	9.4665+00	4.6409+01	-2.8815+00	1.2100+00
-4.0	1.1709+00	7.3193+00	8.4902+00	4.4924+01	-2.6958+00	1.1709+00
-3.8	1.1384+00	6.5402+00	7.6786+00	4.3613+01	-2.5080+00	1.1384+00
-3.6	1.1116+00	5.8988+00	7.0104+00	4.2454+01	-2.3183+00	1.1116+00
-3.4	1.0897+00	5.3748+00	6.4645+00	4.1423+01	-2.1270+00	1.0897+00
-3.2	1.0720+00	4.9491+00	6.0711+00	4.0500+01	-1.9341+00	1.0720+00
-3.0	1.0576+00	4.6049+00	5.6625+00	3.9665+01	-1.7400+00	1.0576+00
-2.8	1.0460+00	4.3277+00	5.3738+00	3.8904+01	-1.5448+00	1.0460+00
-2.6	1.0368+00	4.1051+00	5.1418+00	3.8202+01	-1.3486+00	1.0368+00
-2.4	1.0293+00	3.9267+00	4.9560+00	3.7548+01	-1.1518+00	1.0293+00
-2.2	1.0234+00	3.7839+00	4.8073+00	3.6932+01	-9.5427-01	1.0234+00
-2.0	1.0186+00	3.6700+00	4.6886+00	3.6348+01	-7.5630-01	1.0186+00
-1.8	1.0148+00	3.5790+00	4.5938+00	3.5789+01	-5.5791-01	1.0148+00
-1.6	1.0118+00	3.5065+00	4.5183+00	3.5250+01	-3.5920-01	1.0118+00
-1.4	1.0094+00	3.4488+00	4.4582+00	3.4727+01	-1.6023-01	1.0094+00
-1.2	1.0075+00	3.4028+00	4.4104+00	3.4216+01	3.8958-02	1.0074+00
-1.0	1.0061+00	3.3663+00	4.3723+00	3.3716+01	2.3832-01	1.0059+00
-.8	1.0049+00	3.3372+00	4.3421+00	3.3224+01	4.3783-01	1.0047+00
-.6	1.0041+00	3.3141+00	4.3182+00	3.2738+01	6.3747-01	1.0037+00
-.4	1.0035+00	3.2957+00	4.2992+00	3.2258+01	8.3723-01	1.0030+00
-.2	1.0033+00	3.2811+00	4.2844+00	3.1781+01	1.0371+00	1.0024+00
.0	1.0033+00	3.2695+00	4.2728+00	3.1308+01	1.2371+00	1.0019+00
.2	1.0038+00	3.2604+00	4.2641+00	3.0836+01	1.4373+00	1.0015+00
.4	1.0048+00	3.2532+00	4.2579+00	3.0367+01	1.6378+00	1.0012+00
.6	1.0066+00	3.2475+00	4.2542+00	2.9898+01	1.8386+00	1.0009+00
.8	1.0098+00	3.2432+00	4.2530+00	2.9429+01	2.0399+00	1.0007+00
1.0	1.0149+00	3.2400+00	4.2549+00	2.8960+01	2.2421+00	1.0006+00
1.2	1.0232+00	3.2379+00	4.2611+00	2.8489+01	2.4456+00	1.0005+00
1.4	1.0363+00	3.2369+00	4.2732+00	2.8014+01	2.6512+00	1.0004+00
1.6	1.0573+00	3.2371+00	4.2944+00	2.7532+01	2.8599+00	1.0003+00
1.8	1.0905+00	3.2389+00	4.3295+00	2.7040+01	3.0733+00	1.0002+00
2.0	1.1433+00	3.2430+00	4.3863+00	2.6531+01	3.2939+00	1.0002+00
2.2	1.2270+00	3.2503+00	4.4773+00	2.5994+01	3.5245+00	1.0001+00

T= 4800

LOG D	N2	N2+	N+	N++	N	t
-7.0	8.3900-03	4.7300-07	5.9900-04	.0000+00	9.9000-01	6.0000-04
-6.8	1.3100-02	5.8900-07	4.7600-04	.0000+00	9.8600-01	4.7600-04
-6.6	2.0300-02	7.3100-07	3.7800-04	.0000+00	9.7900-01	3.7900-04
-6.4	3.1200-02	9.0000-07	3.0000-04	.0000+00	9.6800-01	3.0100-04
-6.2	4.7100-02	1.1000-06	2.3800-04	.0000+00	9.5200-01	2.3900-04
-6.0	6.9700-02	1.3200-06	1.8900-04	.0000+00	9.3000-01	1.9000-04
-5.8	1.0000-01	1.5500-06	1.4900-04	.0000+00	8.9900-01	1.5100-04
-5.6	1.4000-01	1.7900-06	1.1800-04	.0000+00	8.6000-01	1.1900-04
-5.4	1.8900-01	2.0100-06	9.2300-05	.0000+00	8.1000-01	9.4300-05
-5.2	2.4700-01	2.2000-06	7.2100-05	.0000+00	7.5300-01	7.4300-05
-5.0	3.1100-01	2.3500-06	5.5800-05	.0000+00	6.8800-01	5.8200-05
-4.8	3.8000-01	2.4500-06	4.2900-05	.0000+00	6.2000-01	4.5300-05
-4.6	4.5000-01	2.4900-06	3.2600-05	.0000+00	5.4900-01	3.5100-05
-4.4	5.2000-01	2.4700-06	2.4500-05	.0000+00	4.8000-01	2.6900-05
-4.2	5.8600-01	2.4000-06	1.8200-05	.0000+00	4.1400-01	2.0600-05
-4.0	6.4800-01	2.2900-06	1.3300-05	.0000+00	3.5200-01	1.5600-05
-3.8	7.0400-01	2.1400-06	9.6900-06	.0000+00	2.9600-01	1.1800-05
-3.6	7.5300-01	1.9700-06	6.9500-06	.0000+00	2.4700-01	8.9200-06
-3.4	7.9600-01	1.7900-06	4.9300-06	.0000+00	2.0400-01	6.7200-06
-3.2	8.3200-01	1.6000-06	3.4600-06	.0000+00	1.6800-01	5.0600-06
-3.0	8.6300-01	1.4100-06	2.4000-06	.0000+00	1.3700-01	3.8200-06
-2.8	8.8900-01	1.2300-06	1.6500-06	.0000+00	1.1100-01	2.8800-06
-2.6	9.1000-01	1.0600-06	1.1200-06	.0000+00	8.9600-02	2.1900-06
-2.4	9.2800-01	9.0600-07	7.5700-07	.0000+00	7.2200-02	1.6600-06
-2.2	9.4200-01	7.6500-07	5.0600-07	.0000+00	5.8000-02	1.2700-06
-2.0	9.5400-01	6.4000-07	3.3500-07	.0000+00	4.6500-02	9.7500-07
-1.8	9.6300-01	5.3200-07	2.2000-07	.0000+00	3.7200-02	7.5200-07
-1.6	9.7000-01	4.3800-07	1.4400-07	.0000+00	2.9700-02	5.8200-07
-1.4	9.7600-01	3.5900-07	9.3600-08	.0000+00	2.3700-02	4.5300-07
-1.2	9.8100-01	2.9300-07	6.0500-08	.0000+00	1.8900-02	3.5300-07
-1.0	9.8500-01	2.3700-07	3.9000-08	.0000+00	1.5100-02	2.7600-07
-.8	9.8800-01	1.9200-07	2.5000-08	.0000+00	1.2000-02	2.1700-07
-.6	9.9000-01	1.5500-07	1.6000-08	.0000+00	9.5400-03	1.7100-07
-.4	9.9200-01	1.2400-07	1.0200-08	.0000+00	7.5900-03	1.3400-07
-.2	9.9400-01	9.9600-08	6.5000-09	.0000+00	6.0300-03	1.0600-07
.0	9.9500-01	7.9700-08	4.1300-09	.0000+00	4.8000-03	8.3800-08
.2	9.9600-01	6.3800-08	2.6200-09	.0000+00	3.8100-03	6.6400-08
.4	9.9700-01	5.0900-08	1.6700-09	.0000+00	3.0300-03	5.2600-08
.6	9.9800-01	4.0700-08	1.0600-09	.0000+00	2.4000-03	4.1800-08
.8	9.9800-01	3.2500-08	6.7400-10	.0000+00	1.9100-03	3.3200-08
1.0	9.9800-01	2.6100-08	4.3000-10	.0000+00	1.5100-03	2.6500-08
1.2	9.9900-01	2.0900-08	2.7500-10	.0000+00	1.1900-03	2.1200-08
1.4	9.9900-01	1.6900-08	1.7800-10	.0000+00	9.4100-04	1.7000-08
1.6	9.9900-01	1.3700-08	1.1600-10	.0000+00	7.3900-04	1.3800-08
1.8	9.9900-01	1.1300-08	7.7100-11	.0000+00	5.7600-04	1.1300-08
2.0	1.0000+00	9.4400-09	5.2900-11	.0000+00	4.4400-04	9.4900-09
2.2	1.0000+00	8.1600-09	3.8100-11	.0000+00	3.3700-04	8.2000-09

T= 4800

LUG D	Z	E/RT	H/RT	S/R	LUG P	Z*
-7.0	1.9845+00	2.6343+01	2.8328+01	7.5645+01	-5.4575+00	1.9845+00
-6.8	1.9750+00	2.6117+01	2.8092+01	7.4507+01	-5.2596+00	1.9750+00
-6.6	1.9609+00	2.5782+01	2.7743+01	7.3265+01	-5.0627+00	1.9609+00
-6.4	1.9401+00	2.5292+01	2.7232+01	7.1877+01	-4.8673+00	1.9401+00
-6.2	1.9105+00	2.4596+01	2.6506+01	7.0294+01	-4.6740+00	1.9105+00
-6.0	1.8700+00	2.3646+01	2.5516+01	6.8473+01	-4.4833+00	1.8700+00
-5.8	1.8178+00	2.2419+01	2.4237+01	6.6397+01	-4.2956+00	1.8178+00
-5.6	1.7542+00	2.0926+01	2.2680+01	6.4081+01	-4.1111+00	1.7542+00
-5.4	1.6816+00	1.9223+01	2.0905+01	6.1586+01	-3.9294+00	1.6816+00
-5.2	1.6038+00	1.7398+01	1.9002+01	5.9005+01	-3.7500+00	1.6038+00
-5.0	1.5251+00	1.5551+01	1.7076+01	5.6437+01	-3.5719+00	1.5251+00
-4.8	1.4492+00	1.3769+01	1.5219+01	5.3971+01	-3.3940+00	1.4492+00
-4.6	1.3789+00	1.2120+01	1.3499+01	5.1670+01	-3.2156+00	1.3789+00
-4.4	1.3158+00	1.0641+01	1.1957+01	4.9571+01	-3.0360+00	1.3158+00
-4.2	1.2608+00	9.3490+00	1.0610+01	4.7686+01	-2.8545+00	1.2608+00
-4.0	1.2136+00	8.2432+00	9.4568+00	4.6011+01	-2.6711+00	1.2136+00
-3.8	1.1739+00	7.3116+00	8.4855+00	4.4530+01	-2.4855+00	1.1739+00
-3.6	1.1409+00	6.5365+00	7.6774+00	4.3222+01	-2.2979+00	1.1409+00
-3.4	1.1137+00	5.8979+00	7.0116+00	4.2065+01	-2.1084+00	1.1137+00
-3.2	1.0914+00	5.3759+00	6.4673+00	4.1035+01	-1.9172+00	1.0914+00
-3.0	1.0733+00	4.9516+00	6.0250+00	4.0113+01	-1.7244+00	1.0733+00
-2.8	1.0587+00	4.6085+00	5.6673+00	3.9279+01	-1.5304+00	1.0587+00
-2.6	1.0469+00	4.3321+00	5.3790+00	3.8517+01	-1.3352+00	1.0469+00
-2.4	1.0375+00	4.1100+00	5.1475+00	3.7816+01	-1.1392+00	1.0375+00
-2.2	1.0299+00	3.9320+00	4.9619+00	3.7162+01	-9.4237-01	1.0299+00
-2.0	1.0238+00	3.7896+00	4.8135+00	3.6546+01	-7.4494-01	1.0238+00
-1.8	1.0190+00	3.6759+00	4.6949+00	3.5962+01	-5.4700-01	1.0190+00
-1.6	1.0151+00	3.5852+00	4.6003+00	3.5403+01	-3.4864-01	1.0151+00
-1.4	1.0121+00	3.5128+00	4.5249+00	3.4864+01	-1.4995-01	1.0120+00
-1.2	1.0096+00	3.4552+00	4.4648+00	3.4341+01	4.9005-02	1.0095+00
-1.0	1.0077+00	3.4093+00	4.4171+00	3.3831+01	2.4819-01	1.0076+00
-.8	1.0063+00	3.3728+00	4.3791+00	3.3330+01	4.4755-01	1.0060+00
-.6	1.0052+00	3.3438+00	4.3489+00	3.2838+01	6.4707-01	1.0048+00
-.4	1.0044+00	3.3207+00	4.3251+00	3.2352+01	8.4674-01	1.0038+00
-.2	1.0039+00	3.3024+00	4.3063+00	3.1872+01	1.0465+00	1.0030+00
.0	1.0038+00	3.2878+00	4.2917+00	3.1395+01	1.2465+00	1.0024+00
.2	1.0042+00	3.2763+00	4.2805+00	3.0921+01	1.4467+00	1.0019+00
.4	1.0051+00	3.2672+00	4.2723+00	3.0449+01	1.6471+00	1.0015+00
.6	1.0069+00	3.2601+00	4.2670+00	2.9979+01	1.8478+00	1.0012+00
.8	1.0100+00	3.2546+00	4.2646+00	2.9509+01	2.0492+00	1.0010+00
1.0	1.0150+00	3.2505+00	4.2655+00	2.9039+01	2.2513+00	1.0008+00
1.2	1.0232+00	3.2476+00	4.2709+00	2.8567+01	2.4548+00	1.0006+00
1.4	1.0364+00	3.2460+00	4.2824+00	2.8091+01	2.6604+00	1.0005+00
1.6	1.0572+00	3.2458+00	4.3030+00	2.7609+01	2.8690+00	1.0004+00
1.8	1.0904+00	3.2473+00	4.3377+00	2.7117+01	3.0824+00	1.0003+00
2.0	1.1431+00	3.2511+00	4.3942+00	2.6607+01	3.3029+00	1.0002+00
2.2	1.2265+00	3.2584+00	4.4849+00	2.6070+01	3.5335+00	1.0002+00

T= 4900

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.2400-03	4.5500-07	8.7100-04	.0000+00	9.9300-01	8.7100-04
-6.8	8.2400-03	5.7000-07	6.9200-04	.0000+00	9.9000-01	6.9200-04
-6.6	1.2900-02	7.1100-07	5.4900-04	.0000+00	9.8600-01	5.5000-04
-6.4	2.0000-02	8.8200-07	4.3600-04	.0000+00	9.7900-01	4.3700-04
-6.2	3.0700-02	1.0900-06	3.4600-04	.0000+00	9.6900-01	3.4700-04
-6.0	4.6400-02	1.3200-06	2.7500-04	.0000+00	9.5300-01	2.7600-04
-5.8	6.8600-02	1.5900-06	2.1800-04	.0000+00	9.3100-01	2.1900-04
-5.6	9.9000-02	1.8700-06	1.7200-04	.0000+00	9.0100-01	1.7400-04
-5.4	1.3800-01	2.1600-06	1.3600-04	.0000+00	8.6100-01	1.3800-04
-5.2	1.8700-01	2.4300-06	1.0700-04	.0000+00	8.1200-01	1.0900-04
-5.0	2.4500-01	2.6700-06	8.3200-05	.0000+00	7.5500-01	8.5900-05
-4.8	3.0900-01	2.8500-06	6.4500-05	.0000+00	6.9100-01	6.7300-05
-4.6	3.7700-01	2.9700-06	4.9500-05	.0000+00	6.2300-01	5.2500-05
-4.4	4.4800-01	3.0200-06	3.7600-05	.0000+00	5.5200-01	4.0600-05
-4.2	5.1700-01	3.0000-06	2.8200-05	.0000+00	4.8300-01	3.1200-05
-4.0	5.8400-01	2.9200-06	2.1000-05	.0000+00	4.1600-01	2.3900-05
-3.8	6.4600-01	2.7800-06	1.5400-05	.0000+00	3.5400-01	1.8200-05
-3.6	7.0200-01	2.6000-06	1.1200-05	.0000+00	2.9800-01	1.3800-05
-3.4	7.5100-01	2.3900-06	8.0000-06	.0000+00	2.4900-01	1.0400-05
-3.2	7.9400-01	2.1700-06	5.6700-06	.0000+00	2.0600-01	7.8400-06
-3.0	8.3100-01	1.9400-06	3.9800-06	.0000+00	1.6900-01	5.9100-06
-2.8	8.6200-01	1.7100-06	2.7600-06	.0000+00	1.3800-01	4.4700-06
-2.6	8.8800-01	1.4900-06	1.8900-06	.0000+00	1.1200-01	3.3800-06
-2.4	9.1000-01	1.2800-06	1.2900-06	.0000+00	9.0400-02	2.5700-06
-2.2	9.2700-01	1.0900-06	8.6500-07	.0000+00	7.2800-02	1.9600-06
-2.0	9.4100-01	9.2000-07	5.7700-07	.0000+00	5.8500-02	1.5000-06
-1.8	9.5300-01	7.6900-07	3.8200-07	.0000+00	4.6900-02	1.1500-06
-1.6	9.6200-01	6.3800-07	2.5100-07	.0000+00	3.7500-02	8.8900-07
-1.4	9.7000-01	5.2500-07	1.6400-07	.0000+00	3.0000-02	6.8900-07
-1.2	9.7600-01	4.3000-07	1.0600-07	.0000+00	2.3900-02	5.3600-07
-1.0	9.8100-01	3.5000-07	6.8700-08	.0000+00	1.9100-02	4.1900-07
-.8	9.8500-01	2.8400-07	4.4200-08	.0000+00	1.5200-02	3.2800-07
-.6	9.8800-01	2.2900-07	2.8300-08	.0000+00	1.2100-02	2.5800-07
-.4	9.9000-01	1.8500-07	1.8100-08	.0000+00	9.6300-03	2.0300-07
-.2	9.9200-01	1.4800-07	1.1600-08	.0000+00	7.6600-03	1.6000-07
.0	9.9400-01	1.1900-07	7.3600-09	.0000+00	6.0900-03	1.2600-07
.2	9.9500-01	9.5100-08	4.6800-09	.0000+00	4.8400-03	9.9800-08
.4	9.9600-01	7.6100-08	2.9800-09	.0000+00	3.8400-03	7.9100-08
.6	9.9700-01	6.0900-08	1.8900-09	.0000+00	3.0500-03	6.2800-08
.8	9.9800-01	4.8700-08	1.2000-09	.0000+00	2.4200-03	4.9900-08
1.0	9.9800-01	3.9000-08	7.6800-10	.0000+00	1.9200-03	3.9800-08
1.2	9.9800-01	3.1300-08	4.9200-10	.0000+00	1.5200-03	3.1800-08
1.4	9.9900-01	2.5300-08	3.1700-10	.0000+00	1.2000-03	2.5600-08
1.6	9.9900-01	2.0500-08	2.0700-10	.0000+00	9.3900-04	2.0700-08
1.8	9.9900-01	1.6900-08	1.3700-10	.0000+00	7.3200-04	1.7000-08
2.0	9.9900-01	1.4100-08	9.4000-11	.0000+00	5.6500-04	1.4200-08
2.2	1.0000+00	1.2200-08	6.7300-11	.0000+00	4.2800-04	1.2300-08

T= 4900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.9913+00	2.6041+01	2.8033+01	7.5883+01	-5.4471+00	1.9913+00
-6.8	1.9850+00	2.5893+01	2.7878+01	7.4819+01	-5.2484+00	1.9850+00
-6.6	1.9756+00	2.5673+01	2.7649+01	7.3687+01	-5.0505+00	1.9756+00
-6.4	1.9617+00	2.5349+01	2.7310+01	7.2456+01	-4.8536+00	1.9617+00
-6.2	1.9411+00	2.4875+01	2.6816+01	7.1083+01	-4.6581+00	1.9411+00
-6.0	1.9119+00	2.4201+01	2.6113+01	6.9522+01	-4.4647+00	1.9119+00
-5.8	1.8719+00	2.3281+01	2.5153+01	6.7730+01	-4.2739+00	1.8719+00
-5.6	1.8201+00	2.2090+01	2.3910+01	6.5688+01	-4.0861+00	1.8201+00
-5.4	1.7569+00	2.0637+01	2.2393+01	6.3411+01	-3.9014+00	1.7569+00
-5.2	1.6847+00	1.8975+01	2.0659+01	6.0956+01	-3.7197+00	1.6847+00
-5.0	1.6070+00	1.7190+01	1.8797+01	5.8413+01	-3.5402+00	1.6070+00
-4.8	1.5282+00	1.5379+01	1.6907+01	5.5880+01	-3.3620+00	1.5282+00
-4.6	1.4521+00	1.3630+01	1.5082+01	5.3445+01	-3.1842+00	1.4521+00
-4.4	1.3816+00	1.2007+01	1.3389+01	5.1171+01	-3.0058+00	1.3816+00
-4.2	1.3182+00	1.0551+01	1.1870+01	4.9093+01	-2.8262+00	1.3182+00
-4.0	1.2628+00	9.2784+00	1.0541+01	4.7226+01	-2.6449+00	1.2628+00
-3.8	1.2154+00	8.1879+00	9.4033+00	4.5566+01	-2.4615+00	1.2154+00
-3.6	1.1754+00	7.2688+00	8.4442+00	4.4096+01	-2.2760+00	1.1754+00
-3.4	1.1421+00	6.5037+00	7.6458+00	4.2798+01	-2.0885+00	1.1421+00
-3.2	1.1147+00	5.8732+00	6.9879+00	4.1648+01	-1.8991+00	1.1147+00
-3.0	1.0922+00	5.3576+00	6.4498+00	4.0624+01	-1.7079+00	1.0922+00
-2.8	1.0740+00	4.9385+00	6.0125+00	3.9707+01	-1.5152+00	1.0740+00
-2.6	1.0592+00	4.5995+00	5.6587+00	3.8877+01	-1.3212+00	1.0592+00
-2.4	1.0474+00	4.3263+00	5.3737+00	3.8118+01	-1.1261+00	1.0473+00
-2.2	1.0378+00	4.1068+00	5.1446+00	3.7419+01	-9.3009-01	1.0378+00
-2.0	1.0302+00	3.9309+00	4.9611+00	3.6767+01	-7.3330-01	1.0301+00
-1.8	1.0240+00	3.7902+00	4.8142+00	3.6153+01	-5.3589-01	1.0240+00
-1.6	1.0192+00	3.6777+00	4.6969+00	3.5570+01	-3.3796-01	1.0191+00
-1.4	1.0153+00	3.5880+00	4.6033+00	3.5012+01	-1.3962-01	1.0152+00
-1.2	1.0122+00	3.5165+00	4.5287+00	3.4474+01	5.9063-02	1.0121+00
-1.0	1.0098+00	3.4596+00	4.4693+00	3.3951+01	2.5802-01	1.0096+00
-.8	1.0079+00	3.4142+00	4.4221+00	3.3441+01	4.5721-01	1.0077+00
-.6	1.0064+00	3.3781+00	4.3846+00	3.2942+01	6.5659-01	1.0061+00
-.4	1.0054+00	3.3494+00	4.3548+00	3.2450+01	8.5614-01	1.0048+00
-.2	1.0047+00	3.3266+00	4.3314+00	3.1964+01	1.0559+00	1.0038+00
.0	1.0045+00	3.3085+00	4.3130+00	3.1483+01	1.2557+00	1.0031+00
.2	1.0047+00	3.2942+00	4.2989+00	3.1006+01	1.4558+00	1.0024+00
.4	1.0055+00	3.2828+00	4.2883+00	3.0532+01	1.6562+00	1.0019+00
.6	1.0072+00	3.2739+00	4.2811+00	3.0060+01	1.8569+00	1.0015+00
.8	1.0102+00	3.2670+00	4.2772+00	2.9588+01	2.0582+00	1.0012+00
1.0	1.0152+00	3.2617+00	4.2770+00	2.9117+01	2.2604+00	1.0010+00
1.2	1.0234+00	3.2580+00	4.2814+00	2.8644+01	2.4638+00	1.0008+00
1.4	1.0364+00	3.2557+00	4.2921+00	2.8168+01	2.6693+00	1.0006+00
1.6	1.0572+00	3.2549+00	4.3121+00	2.7685+01	2.8780+00	1.0005+00
1.8	1.0903+00	3.2560+00	4.3463+00	2.7192+01	3.0913+00	1.0004+00
2.0	1.1428+00	3.2596+00	4.4024+00	2.6682+01	3.3118+00	1.0003+00
2.2	1.2261+00	3.2667+00	4.4928+00	2.6146+01	3.5423+00	1.0002+00

T= 5000

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.7200-03	4.3800-07	1.2500-03	.0000+00	9.9400-01	1.2500-03
-6.8	5.2400-03	5.5000-07	9.9000-04	.0000+00	9.9300-01	9.9100-04
-6.6	8.2300-03	6.8800-07	7.8700-04	.0000+00	9.9000-01	7.8800-04
-6.4	1.2900-02	8.5800-07	6.2500-04	.0000+00	9.8600-01	6.2600-04
-6.2	2.0000-02	1.0700-06	4.9600-04	.0000+00	9.7900-01	4.9700-04
-6.0	3.0600-02	1.3100-06	3.9400-04	.0000+00	9.6900-01	3.9500-04
-5.8	4.6300-02	1.6000-06	3.1200-04	.0000+00	9.5300-01	3.1400-04
-5.6	6.8600-02	1.9200-06	2.4800-04	.0000+00	9.3100-01	2.5000-04
-5.4	9.8900-02	2.2600-06	1.9600-04	.0000+00	9.0100-01	1.9800-04
-5.2	1.3800-01	2.6100-06	1.5400-04	.0000+00	8.6100-01	1.5700-04
-5.0	1.8700-01	2.9400-06	1.2100-04	.0000+00	8.1300-01	1.2400-04
-4.8	2.4500-01	3.2200-06	9.4600-05	.0000+00	7.5500-01	9.7800-05
-4.6	3.0900-01	3.4400-06	7.3300-05	.0000+00	6.9100-01	7.6700-05
-4.4	3.7700-01	3.5800-06	5.6200-05	.0000+00	6.2300-01	5.9800-05
-4.2	4.4800-01	3.6400-06	4.2700-05	.0000+00	5.5200-01	4.6300-05
-4.0	5.1700-01	3.6100-06	3.2100-05	.0000+00	4.8300-01	3.5700-05
-3.8	5.8400-01	3.5100-06	2.3800-05	.0000+00	4.1600-01	2.7300-05
-3.6	6.4600-01	3.3400-06	1.7400-05	.0000+00	3.5400-01	2.0800-05
-3.4	7.0200-01	3.1300-06	1.2600-05	.0000+00	2.9800-01	1.5800-05
-3.2	7.5100-01	2.8700-06	9.0500-06	.0000+00	2.4900-01	1.1900-05
-3.0	7.9400-01	2.6000-06	6.4000-06	.0000+00	2.0600-01	9.0000-06
-2.8	8.3100-01	2.3200-06	4.4800-06	.0000+00	1.6900-01	6.8000-06
-2.6	8.6200-01	2.0400-06	3.1000-06	.0000+00	1.3800-01	5.1400-06
-2.4	8.8800-01	1.7700-06	2.1200-06	.0000+00	1.1200-01	3.9000-06
-2.2	9.1000-01	1.5300-06	1.4400-06	.0000+00	9.0400-02	2.9700-06
-2.0	9.2700-01	1.3000-06	9.6800-07	.0000+00	7.2900-02	2.2600-06
-1.8	9.4100-01	1.0900-06	6.4500-07	.0000+00	5.8500-02	1.7400-06
-1.6	9.5300-01	9.1100-07	4.2600-07	.0000+00	4.6900-02	1.3400-06
-1.4	9.6200-01	7.5400-07	2.8000-07	.0000+00	3.7500-02	1.0300-06
-1.2	9.7000-01	6.2000-07	1.8200-07	.0000+00	3.0000-02	8.0300-07
-1.0	9.7600-01	5.0700-07	1.1800-07	.0000+00	2.3900-02	6.2500-07
-.8	9.8100-01	4.1300-07	7.6300-08	.0000+00	1.9100-02	4.8900-07
-.6	9.8500-01	3.3400-07	4.9000-08	.0000+00	1.5200-02	3.8300-07
-.4	9.8800-01	2.7000-07	3.1400-08	.0000+00	1.2100-02	3.0100-07
-.2	9.9000-01	2.1700-07	2.0100-08	.0000+00	9.6300-03	2.3700-07
.0	9.9200-01	1.7400-07	1.2800-08	.0000+00	7.6600-03	1.8700-07
.2	9.9400-01	1.4000-07	8.1500-09	.0000+00	6.0900-03	1.4800-07
.4	9.9500-01	1.1200-07	5.1900-09	.0000+00	4.8400-03	1.1700-07
.6	9.9600-01	8.9600-08	3.3000-09	.0000+00	3.8400-03	9.2900-08
.8	9.9700-01	7.1700-08	2.1000-09	.0000+00	3.0500-03	7.3800-08
1.0	9.9800-01	5.7500-08	1.3400-09	.0000+00	2.4100-03	5.8800-08
1.2	9.9800-01	4.6200-08	8.5900-10	.0000+00	1.9100-03	4.7000-08
1.4	9.9800-01	3.7200-08	5.5400-10	.0000+00	1.5100-03	3.7800-08
1.6	9.9900-01	3.0300-08	3.6100-10	.0000+00	1.1800-03	3.0600-08
1.8	9.9900-01	2.4900-08	2.3900-10	.0000+00	9.2200-04	2.5100-08
2.0	9.9900-01	2.0900-08	1.6300-10	.0000+00	7.1100-04	2.1000-08
2.2	9.9900-01	1.8000-08	1.1600-10	.0000+00	5.3900-04	1.8200-08

T= 5000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.9959+00	2.5705+01	2.7701+01	7.6069+01	-5.4373+00	1.9959+00
-6.8	1.9915+00	2.5601+01	2.7593+01	7.5047+01	-5.2382+00	1.9915+00
-6.6	1.9852+00	2.5454+01	2.7439+01	7.3984+01	-5.0396+00	1.9852+00
-6.4	1.9758+00	2.5237+01	2.7213+01	7.2856+01	-4.8417+00	1.9758+00
-6.2	1.9618+00	2.4919+01	2.6881+01	7.1630+01	-4.6448+00	1.9618+00
-6.0	1.9413+00	2.4454+01	2.6395+01	7.0266+01	-4.4493+00	1.9413+00
-5.8	1.9120+00	2.3793+01	2.5706+01	6.8718+01	-4.2559+00	1.9120+00
-5.6	1.8721+00	2.2892+01	2.4764+01	6.6945+01	-4.0651+00	1.8721+00
-5.4	1.8203+00	2.1725+01	2.3545+01	6.4927+01	-3.8773+00	1.8203+00
-5.2	1.7571+00	2.0301+01	2.2059+01	6.2680+01	-3.6926+00	1.7571+00
-5.0	1.6848+00	1.8674+01	2.0358+01	6.0259+01	-3.5109+00	1.6848+00
-4.8	1.6072+00	1.6925+01	1.8532+01	5.7752+01	-3.3314+00	1.6072+00
-4.6	1.5284+00	1.5151+01	1.6679+01	5.5256+01	-3.1532+00	1.5284+00
-4.4	1.4523+00	1.3437+01	1.4889+01	5.2857+01	-2.9754+00	1.4523+00
-4.2	1.3817+00	1.1848+01	1.3229+01	5.0615+01	-2.7970+00	1.3817+00
-4.0	1.3183+00	1.0421+01	1.1740+01	4.8567+01	-2.6174+00	1.3183+00
-3.8	1.2629+00	9.1739+00	1.0437+01	4.6726+01	-2.4361+00	1.2629+00
-3.6	1.2154+00	8.1055+00	9.3209+00	4.5087+01	-2.2527+00	1.2154+00
-3.4	1.1754+00	7.2048+00	8.3803+00	4.3636+01	-2.0672+00	1.1754+00
-3.2	1.1421+00	6.4552+00	7.5973+00	4.2353+01	-1.8797+00	1.1421+00
-3.0	1.1147+00	5.8374+00	6.9521+00	4.1216+01	-1.6903+00	1.1147+00
-2.8	1.0923+00	5.3321+00	6.4244+00	4.0203+01	-1.4991+00	1.0922+00
-2.6	1.0740+00	4.9215+00	5.9955+00	3.9293+01	-1.3064+00	1.0740+00
-2.4	1.0593+00	4.5893+00	5.6485+00	3.8470+01	-1.1124+00	1.0593+00
-2.2	1.0474+00	4.3216+00	5.3690+00	3.7718+01	-9.1733-01	1.0474+00
-2.0	1.0378+00	4.1065+00	5.1444+00	3.7022+01	-7.2131-01	1.0378+00
-1.8	1.0302+00	3.9342+00	4.9643+00	3.6374+01	-5.2452-01	1.0302+00
-1.6	1.0241+00	3.7963+00	4.8203+00	3.5763+01	-3.2710-01	1.0240+00
-1.4	1.0192+00	3.6861+00	4.7053+00	3.5183+01	-1.2918-01	1.0191+00
-1.2	1.0153+00	3.5982+00	4.6135+00	3.4626+01	6.9172-02	1.0152+00
-1.0	1.0123+00	3.5281+00	4.5404+00	3.4089+01	2.6786-01	1.0121+00
-.8	1.0099+00	3.4723+00	4.4822+00	3.3568+01	4.6683-01	1.0096+00
-.6	1.0080+00	3.4279+00	4.4359+00	3.3059+01	6.6604-01	1.0077+00
-.4	1.0067+00	3.3925+00	4.3992+00	3.2560+01	8.6545-01	1.0061+00
-.2	1.0057+00	3.3644+00	4.3702+00	3.2068+01	1.0651+00	1.0048+00
.0	1.0053+00	3.3421+00	4.3474+00	3.1583+01	1.2649+00	1.0038+00
.2	1.0053+00	3.3244+00	4.3297+00	3.1102+01	1.4649+00	1.0031+00
.4	1.0060+00	3.3104+00	4.3164+00	3.0625+01	1.6652+00	1.0024+00
.6	1.0076+00	3.2993+00	4.3069+00	3.0150+01	1.8659+00	1.0019+00
.8	1.0105+00	3.2907+00	4.3012+00	2.9677+01	2.0671+00	1.0015+00
1.0	1.0154+00	3.2841+00	4.2996+00	2.9204+01	2.2692+00	1.0012+00
1.2	1.0235+00	3.2793+00	4.3028+00	2.8730+01	2.4727+00	1.0010+00
1.4	1.0365+00	3.2762+00	4.3127+00	2.8253+01	2.6781+00	1.0008+00
1.6	1.0572+00	3.2747+00	4.3320+00	2.7770+01	2.8867+00	1.0006+00
1.8	1.0902+00	3.2753+00	4.3656+00	2.7276+01	3.1001+00	1.0005+00
2.0	1.1426+00	3.2785+00	4.4212+00	2.6766+01	3.3205+00	1.0004+00
2.2	1.2257+00	3.2855+00	4.5112+00	2.6229+01	3.5510+00	1.0003+00

T= 5100

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.1400-03	4.2200-07	1.7600-03	.0000+00	9.9400-01	1.7600-03
-6.8	3.3800-03	5.3000-07	1.4000-03	.0000+00	9.9400-01	1.4000-03
-6.6	5.3400-03	6.6500-07	1.1100-03	.0000+00	9.9200-01	1.1100-03
-6.4	8.3900-03	8.3200-07	8.8300-04	.0000+00	9.9000-01	8.8400-04
-6.2	1.3100-02	1.0400-06	7.0100-04	.0000+00	9.8500-01	7.0200-04
-6.0	2.0300-02	1.2900-06	5.5700-04	.0000+00	9.7900-01	5.5800-04
-5.8	3.1200-02	1.5900-06	4.4200-04	.0000+00	9.6800-01	4.4400-04
-5.6	4.7100-02	1.9300-06	3.5100-04	.0000+00	9.5200-01	3.5200-04
-5.4	6.9700-02	2.3200-06	2.7800-04	.0000+00	9.3000-01	2.8000-04
-5.2	1.0000-01	2.7300-06	2.2000-04	.0000+00	8.9900-01	2.2200-04
-5.0	1.4000-01	3.1500-06	1.7300-04	.0000+00	8.5900-01	1.7600-04
-4.8	1.8900-01	3.5400-06	1.3600-04	.0000+00	8.1000-01	1.3900-04
-4.6	2.4700-01	3.8700-06	1.0600-04	.0000+00	7.5300-01	1.1000-04
-4.4	3.1200-01	4.1300-06	8.2000-05	.0000+00	6.8800-01	8.6100-05
-4.2	3.8000-01	4.2900-06	6.2900-05	.0000+00	6.2000-01	6.7200-05
-4.0	4.5100-01	4.3500-06	4.7700-05	.0000+00	5.4900-01	5.2000-05
-3.8	5.2000-01	4.3100-06	3.5800-05	.0000+00	4.8000-01	4.0100-05
-3.6	5.8600-01	4.1800-06	2.6500-05	.0000+00	4.1400-01	3.0700-05
-3.4	6.4800-01	3.9800-06	1.9400-05	.0000+00	3.5200-01	2.3400-05
-3.2	7.0400-01	3.7100-06	1.4000-05	.0000+00	2.9600-01	1.7700-05
-3.0	7.5300-01	3.4100-06	1.0000-05	.0000+00	2.4700-01	1.3400-05
-2.8	7.9600-01	3.0800-06	7.0900-06	.0000+00	2.0400-01	1.0200-05
-2.6	8.3300-01	2.7400-06	4.9500-06	.0000+00	1.6700-01	7.6900-06
-2.4	8.6300-01	2.4100-06	3.4200-06	.0000+00	1.3700-01	5.8300-06
-2.2	8.8900-01	2.0900-06	2.3400-06	.0000+00	1.1100-01	4.4200-06
-2.0	9.1000-01	1.7900-06	1.5800-06	.0000+00	8.9600-02	3.3700-06
-1.8	9.2800-01	1.5200-06	1.0600-06	.0000+00	7.2200-02	2.5800-06
-1.6	9.4200-01	1.2800-06	7.0500-07	.0000+00	5.8000-02	1.9800-06
-1.4	9.5400-01	1.0600-06	4.6500-07	.0000+00	4.6500-02	1.5300-06
-1.2	9.6300-01	8.7800-07	3.0500-07	.0000+00	3.7200-02	1.1800-06
-1.0	9.7000-01	7.2100-07	1.9800-07	.0000+00	2.9700-02	9.2000-07
-.8	9.7600-01	5.8900-07	1.2900-07	.0000+00	2.3700-02	7.1800-07
-.6	9.8100-01	4.7900-07	8.2900-08	.0000+00	1.8900-02	5.6200-07
-.4	9.8500-01	3.8700-07	5.3200-08	.0000+00	1.5100-02	4.4100-07
-.2	9.8800-01	3.1300-07	3.4100-08	.0000+00	1.2000-02	3.4700-07
.0	9.9000-01	2.5100-07	2.1800-08	.0000+00	9.5300-03	2.7300-07
.2	9.9200-01	2.0200-07	1.3900-08	.0000+00	7.5800-03	2.1600-07
.4	9.9400-01	1.6200-07	8.8400-09	.0000+00	6.0200-03	1.7100-07
.6	9.9500-01	1.3000-07	5.6300-09	.0000+00	4.7800-03	1.3500-07
.8	9.9600-01	1.0400-07	3.5900-09	.0000+00	3.8000-03	1.0700-07
1.0	9.9700-01	8.3300-08	2.2900-09	.0000+00	3.0100-03	8.5600-08
1.2	9.9800-01	6.7000-08	1.4700-09	.0000+00	2.3800-03	6.8400-08
1.4	9.9800-01	5.4000-08	9.4500-10	.0000+00	1.8800-03	5.5000-08
1.6	9.9900-01	4.3900-08	6.1600-10	.0000+00	1.4700-03	4.4600-08
1.8	9.9900-01	3.6100-08	4.0800-10	.0000+00	1.1500-03	3.6600-08
2.0	9.9900-01	3.0300-08	2.7700-10	.0000+00	8.8700-04	3.0600-08
2.2	9.9900-01	2.6200-08	1.9700-10	.0000+00	6.7200-04	2.6400-08



T= 5100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	1.9992+00	2.5361+01	2.7360+01	7.6231+01	-5.4280+00	1.9992+00
-6.8	1.9960+00	2.5281+01	2.7277+01	7.5231+01	-5.2287+00	1.9960+00
-6.6	1.9916+00	2.5176+01	2.7167+01	7.4208+01	-5.0296+00	1.9916+00
-6.4	1.9851+00	2.5027+01	2.7012+01	7.3143+01	-4.8310+00	1.9851+00
-6.2	1.9755+00	2.4810+01	2.6785+01	7.2014+01	-4.6332+00	1.9755+00
-6.0	1.9612+00	2.4491+01	2.6452+01	7.0788+01	-4.4363+00	1.9612+00
-5.8	1.9403+00	2.4027+01	2.5967+01	6.9426+01	-4.2410+00	1.9403+00
-5.6	1.9106+00	2.3370+01	2.5280+01	6.7881+01	-4.0477+00	1.9106+00
-5.4	1.8702+00	2.2475+01	2.4345+01	6.6115+01	-3.8569+00	1.8702+00
-5.2	1.8178+00	2.1318+01	2.3136+01	6.4109+01	-3.6693+00	1.8178+00
-5.0	1.7542+00	1.9912+01	2.1666+01	6.1880+01	-3.4848+00	1.7542+00
-4.8	1.6816+00	1.8309+01	1.9990+01	5.9486+01	-3.3031+00	1.6816+00
-4.6	1.6038+00	1.6591+01	1.8195+01	5.7011+01	-3.1237+00	1.6038+00
-4.4	1.5250+00	1.4852+01	1.6377+01	5.4552+01	-2.9455+00	1.5250+00
-4.2	1.4491+00	1.3176+01	1.4625+01	5.2191+01	-2.7677+00	1.4491+00
-4.0	1.3788+00	1.1624+01	1.3002+01	4.9988+01	-2.5893+00	1.3788+00
-3.8	1.3158+00	1.0232+01	1.1548+01	4.7976+01	-2.4096+00	1.3158+00
-3.6	1.2607+00	9.0167+00	1.0277+01	4.6168+01	-2.2282+00	1.2607+00
-3.4	1.2136+00	7.9764+00	9.1900+00	4.4558+01	-2.0448+00	1.2136+00
-3.2	1.1739+00	7.1000+00	8.2738+00	4.3132+01	-1.8592+00	1.1739+00
-3.0	1.1409+00	6.3708+00	7.5117+00	4.1870+01	-1.6716+00	1.1409+00
-2.8	1.1136+00	5.7701+00	6.8838+00	4.0751+01	-1.4821+00	1.1136+00
-2.6	1.0914+00	5.2791+00	6.3705+00	3.9752+01	-1.2908+00	1.0914+00
-2.4	1.0733+00	4.8800+00	5.9533+00	3.8855+01	-1.0981+00	1.0733+00
-2.2	1.0587+00	4.5573+00	5.6160+00	3.8041+01	-9.0406-01	1.0587+00
-2.0	1.0469+00	4.2972+00	5.3442+00	3.7297+01	-7.0891-01	1.0469+00
-1.8	1.0375+00	4.0883+00	5.1258+00	3.6608+01	-5.1285-01	1.0374+00
-1.6	1.0299+00	3.9209+00	4.9508+00	3.5964+01	-3.1604-01	1.0299+00
-1.4	1.0239+00	3.7870+00	4.8108+00	3.5358+01	-1.1859-01	1.0238+00
-1.2	1.0190+00	3.6800+00	4.6990+00	3.4780+01	7.9360-02	1.0189+00
-1.0	1.0152+00	3.5946+00	4.6099+00	3.4227+01	2.7773-01	1.0151+00
-.8	1.0122+00	3.5266+00	4.5388+00	3.3692+01	4.7645-01	1.0120+00
-.6	1.0099+00	3.4724+00	4.4823+00	3.3172+01	6.7545-01	1.0095+00
-.4	1.0082+00	3.4293+00	4.4374+00	3.2664+01	8.7470-01	1.0076+00
-.2	1.0069+00	3.3949+00	4.4019+00	3.2166+01	1.0742+00	1.0060+00
.0	1.0062+00	3.3677+00	4.3739+00	3.1675+01	1.2739+00	1.0048+00
.2	1.0061+00	3.3460+00	4.3521+00	3.1190+01	1.4738+00	1.0038+00
.4	1.0066+00	3.3289+00	4.3355+00	3.0710+01	1.6740+00	1.0030+00
.6	1.0081+00	3.3153+00	4.3234+00	3.0232+01	1.8747+00	1.0024+00
.8	1.0109+00	3.3047+00	4.3156+00	2.9757+01	2.0759+00	1.0019+00
1.0	1.0157+00	3.2966+00	4.3123+00	2.9282+01	2.2779+00	1.0015+00
1.2	1.0237+00	3.2905+00	4.3142+00	2.8807+01	2.4813+00	1.0012+00
1.4	1.0366+00	3.2864+00	4.3230+00	2.8328+01	2.6868+00	1.0009+00
1.6	1.0573+00	3.2842+00	4.3415+00	2.7844+01	2.8954+00	1.0007+00
1.8	1.0902+00	3.2842+00	4.3744+00	2.7350+01	3.1087+00	1.0006+00
2.0	1.1424+00	3.2870+00	4.4294+00	2.6840+01	3.3290+00	1.0004+00
2.2	1.2253+00	3.2936+00	4.5189+00	2.6303+01	3.5594+00	1.0003+00

T= 5200

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.4000-03	4.0600-07	2.4500-03	.0000+00	9.9400-01	2.4500-03
-6.8	2.2200-03	5.1100-07	1.9500-03	.0000+00	9.9400-01	1.9500-03
-6.6	3.5100-03	6.4300-07	1.5500-03	.0000+00	9.9300-01	1.5500-03
-6.4	5.5300-03	8.0700-07	1.2300-03	.0000+00	9.9200-01	1.2300-03
-6.2	8.6900-03	1.0100-06	9.7800-04	.0000+00	9.8900-01	9.7900-04
-6.0	1.3600-02	1.2600-06	7.7700-04	.0000+00	9.8500-01	7.7800-04
-5.8	2.1000-02	1.5600-06	6.1700-04	.0000+00	9.7800-01	6.1800-04
-5.6	3.2300-02	1.9200-06	4.8900-04	.0000+00	9.6700-01	4.9100-04
-5.4	4.8600-02	2.3400-06	3.8800-04	.0000+00	9.5100-01	3.9100-04
-5.2	7.1800-02	2.8000-06	3.0700-04	.0000+00	9.2800-01	3.1000-04
-5.0	1.0300-01	3.2900-06	2.4300-04	.0000+00	8.9600-01	2.4600-04
-4.8	1.4400-01	3.7900-06	1.9200-04	.0000+00	8.5600-01	1.9500-04
-4.6	1.9400-01	4.2500-06	1.5000-04	.0000+00	8.0600-01	1.5400-04
-4.4	2.5200-01	4.6400-06	1.1700-04	.0000+00	7.4800-01	1.2200-04
-4.2	3.1700-01	4.9400-06	9.0500-05	.0000+00	6.8300-01	9.5400-05
-4.0	3.8600-01	5.1200-06	6.9300-05	.0000+00	6.1400-01	7.4400-05
-3.8	4.5600-01	5.1800-06	5.2500-05	.0000+00	5.4400-01	5.7700-05
-3.6	5.2500-01	5.1200-06	3.9300-05	.0000+00	4.7400-01	4.4400-05
-3.4	5.9200-01	4.9500-06	2.9100-05	.0000+00	4.0800-01	3.4000-05
-3.2	6.5300-01	4.6900-06	2.1200-05	.0000+00	3.4700-01	2.5900-05
-3.0	7.0800-01	4.3700-06	1.5300-05	.0000+00	2.9200-01	1.9700-05
-2.8	7.5700-01	4.0000-06	1.0900-05	.0000+00	2.4300-01	1.4900-05
-2.6	7.9900-01	3.6000-06	7.7100-06	.0000+00	2.0100-01	1.1300-05
-2.4	8.3500-01	3.2000-06	5.3700-06	.0000+00	1.6500-01	8.5700-06
-2.2	8.6600-01	2.8000-06	3.7000-06	.0000+00	1.3400-01	6.5100-06
-2.0	8.9100-01	2.4300-06	2.5200-06	.0000+00	1.0900-01	4.9500-06
-1.8	9.1200-01	2.0700-06	1.7000-06	.0000+00	8.8100-02	3.7800-06
-1.6	9.2900-01	1.7600-06	1.1400-06	.0000+00	7.0900-02	2.9000-06
-1.4	9.4300-01	1.4700-06	7.5700-07	.0000+00	5.7000-02	2.2300-06
-1.2	9.5400-01	1.2200-06	4.9800-07	.0000+00	4.5700-02	1.7200-06
-1.0	9.6300-01	1.0100-06	3.2600-07	.0000+00	3.6500-02	1.3400-06
-.8	9.7100-01	8.2800-07	2.1200-07	.0000+00	2.9200-02	1.0400-06
-.6	9.7700-01	6.7500-07	1.3700-07	.0000+00	2.3300-02	8.1200-07
-.4	9.8100-01	5.4800-07	8.8200-08	.0000+00	1.8600-02	6.3600-07
-.2	9.8500-01	4.4300-07	5.6600-08	.0000+00	1.4800-02	5.0000-07
.0	9.8800-01	3.5700-07	3.6200-08	.0000+00	1.1800-02	3.9400-07
.2	9.9100-01	2.8700-07	2.3100-08	.0000+00	9.3600-03	3.1100-07
.4	9.9300-01	2.3100-07	1.4800-08	.0000+00	7.4400-03	2.4600-07
.6	9.9400-01	1.8500-07	9.4000-09	.0000+00	5.9100-03	1.9400-07
.8	9.9500-01	1.4800-07	6.0000-09	.0000+00	4.6900-03	1.5400-07
1.0	9.9600-01	1.1900-07	3.8300-09	.0000+00	3.7200-03	1.2300-07
1.2	9.9700-01	9.5800-08	2.4500-09	.0000+00	2.9400-03	9.8200-08
1.4	9.9800-01	7.7300-08	1.5800-09	.0000+00	2.3200-03	7.8900-08
1.6	9.9800-01	6.2900-08	1.0300-09	.0000+00	1.8200-03	6.3900-08
1.8	9.9900-01	5.1800-08	6.8000-10	.0000+00	1.4200-03	5.2500-08
2.0	9.9900-01	4.3400-08	4.6200-10	.0000+00	1.1000-03	4.3900-08
2.2	9.9900-01	3.7500-08	3.2700-10	.0000+00	8.3100-04	3.7900-08

T= 5200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0021+00	2.5024+01	2.7026+01	7.6383+01	-5.4189+00	2.0021+00
-6.8	1.9995+00	2.4954+01	2.6954+01	7.5392+01	-5.2195+00	1.9995+00
-6.6	1.9961+00	2.4871+01	2.6867+01	7.4389+01	-5.0202+00	1.9961+00
-6.4	1.9914+00	2.4763+01	2.6754+01	7.3362+01	-4.8212+00	1.9914+00
-6.2	1.9847+00	2.4611+01	2.6595+01	7.2294+01	-4.6227+00	1.9847+00
-6.0	1.9747+00	2.4390+01	2.6364+01	7.1161+01	-4.4249+00	1.9747+00
-5.8	1.9600+00	2.4066+01	2.6026+01	6.9932+01	-4.2282+00	1.9600+00
-5.6	1.9384+00	2.3597+01	2.5535+01	6.8564+01	-4.0329+00	1.9384+00
-5.4	1.9079+00	2.2934+01	2.4842+01	6.7015+01	-3.8398+00	1.9079+00
-5.2	1.8665+00	2.2035+01	2.3902+01	6.5247+01	-3.6494+00	1.8665+00
-5.0	1.8132+00	2.0880+01	2.2693+01	6.3244+01	-3.4619+00	1.8132+00
-4.8	1.7487+00	1.9483+01	2.1231+01	6.1026+01	-3.2777+00	1.7487+00
-4.6	1.6756+00	1.7897+01	1.9573+01	5.8652+01	-3.0962+00	1.6756+00
-4.4	1.5975+00	1.6207+01	1.7805+01	5.6208+01	-2.9169+00	1.5975+00
-4.2	1.5189+00	1.4504+01	1.6022+01	5.3787+01	-2.7389+00	1.5189+00
-4.0	1.4433+00	1.2867+01	1.4310+01	5.1469+01	-2.5610+00	1.4433+00
-3.8	1.3735+00	1.1356+01	1.2729+01	4.9309+01	-2.3826+00	1.3735+00
-3.6	1.3111+00	1.0004+01	1.1315+01	4.7340+01	-2.2028+00	1.3111+00
-3.4	1.2567+00	8.8258+00	1.0082+01	4.5570+01	-2.0212+00	1.2567+00
-3.2	1.2102+00	7.8186+00	9.0287+00	4.3995+01	-1.8376+00	1.2102+00
-3.0	1.1710+00	6.9710+00	8.1420+00	4.2600+01	-1.6518+00	1.1710+00
-2.8	1.1385+00	6.2665+00	7.4050+00	4.1364+01	-1.4641+00	1.1385+00
-2.6	1.1117+00	5.6865+00	6.7982+00	4.0266+01	-1.2744+00	1.1117+00
-2.4	1.0898+00	5.2126+00	6.3024+00	3.9285+01	-1.0830+00	1.0898+00
-2.2	1.0720+00	4.8277+00	5.8997+00	3.8403+01	-8.9019-01	1.0720+00
-2.0	1.0577+00	4.5164+00	5.5741+00	3.7601+01	-6.9605-01	1.0577+00
-1.8	1.0461+00	4.2657+00	5.3118+00	3.6866+01	-5.0082-01	1.0461+00
-1.6	1.0368+00	4.0644+00	5.1012+00	3.6185+01	-3.0470-01	1.0368+00
-1.4	1.0294+00	3.9031+00	4.9324+00	3.5548+01	-1.0782-01	1.0293+00
-1.2	1.0235+00	3.7740+00	4.7975+00	3.4947+01	8.9673-02	1.0234+00
-1.0	1.0187+00	3.6709+00	4.6897+00	3.4373+01	2.8767-01	1.0186+00
-.8	1.0150+00	3.5887+00	4.6037+00	3.3823+01	4.8608-01	1.0148+00
-.6	1.0121+00	3.5231+00	4.5353+00	3.3290+01	6.8484-01	1.0118+00
-.4	1.0099+00	3.4709+00	4.4809+00	3.2773+01	8.8390-01	1.0094+00
-.2	1.0083+00	3.4294+00	4.4377+00	3.2266+01	1.0832+00	1.0074+00
.0	1.0073+00	3.3964+00	4.4037+00	3.1769+01	1.2828+00	1.0059+00
.2	1.0070+00	3.3701+00	4.3771+00	3.1279+01	1.4826+00	1.0047+00
.4	1.0073+00	3.3493+00	4.3566+00	3.0795+01	1.6828+00	1.0037+00
.6	1.0086+00	3.3329+00	4.3415+00	3.0314+01	1.8833+00	1.0030+00
.8	1.0113+00	3.3200+00	4.3313+00	2.9836+01	2.0845+00	1.0023+00
1.0	1.0161+00	3.3100+00	4.3260+00	2.9359+01	2.2865+00	1.0019+00
1.2	1.0240+00*	3.3025+00	4.3264+00	2.8882+01	2.4899+00	1.0015+00
1.4	1.0368+00	3.2972+00	4.3339+00	2.8403+01	2.6953+00	1.0012+00
1.6	1.0573+00	3.2941+00	4.3514+00	2.7918+01	2.9038+00	1.0009+00
1.8	1.0901+00	3.2934+00	4.3835+00	2.7423+01	3.1171+00	1.0007+00
2.0	1.1422+00	3.2956+00	4.4378+00	2.6912+01	3.3374+00	1.0005+00
2.2	1.2249+00	3.3019+00	4.5268+00	2.6375+01	3.5677+00	1.0004+00

T= 5300

LOG D	N2	N2+	N+	N++	N	E
-7.0	9.3000-04	3.9200-07	3.3700-03	.0000+00	9.9200-01	3.3700-03
-6.8	1.4800-03	4.9400-07	2.6800-03	.0000+00	9.9300-01	2.6800-03
-6.6	2.3400-03	6.2100-07	2.1300-03	.0000+00	9.9300-01	2.1300-03
-6.4	3.6900-03	7.8100-07	1.6900-03	.0000+00	9.9300-01	1.7000-03
-6.2	5.8200-03	9.8000-07	1.3500-03	.0000+00	9.9100-01	1.3500-03
-6.0	9.1400-03	1.2300-06	1.0700-03	.0000+00	9.8900-01	1.0700-03
-5.8	1.4300-02	1.5300-06	8.5000-04	.0000+00	9.8400-01	8.5100-04
-5.6	2.2100-02	1.8900-06	6.7500-04	.0000+00	9.7700-01	6.7600-04
-5.4	3.3800-02	2.3300-06	5.3500-04	.0000+00	9.6500-01	5.3800-04
-5.2	5.0900-02	2.8300-06	4.2500-04	.0000+00	9.4800-01	4.2700-04
-5.0	7.4900-02	3.3800-06	3.3600-04	.0000+00	9.2400-01	3.4000-04
-4.8	1.0700-01	3.9600-06	2.6600-04	.0000+00	8.9200-01	2.7000-04
-4.6	1.4900-01	4.5500-06	2.0900-04	.0000+00	8.5100-01	2.1400-04
-4.4	2.0000-01	5.0800-06	1.6400-04	.0000+00	8.0000-01	1.6900-04
-4.2	2.5900-01	5.5300-06	1.2800-04	.0000+00	7.4100-01	1.3300-04
-4.0	3.2400-01	5.8700-06	9.8500-05	.0000+00	6.7500-01	1.0400-04
-3.8	3.9400-01	6.0600-06	7.5300-05	.0000+00	6.0600-01	8.1400-05
-3.6	4.6400-01	6.1200-06	5.6900-05	.0000+00	5.3600-01	6.3100-05
-3.4	5.3300-01	6.0300-06	4.2500-05	.0000+00	4.6700-01	4.8600-05
-3.2	5.9900-01	5.8100-06	3.1400-05	.0000+00	4.0100-01	3.7200-05
-3.0	6.5900-01	5.4900-06	2.2900-05	.0000+00	3.4100-01	2.8400-05
-2.8	7.1400-01	5.1000-06	1.6500-05	.0000+00	2.8600-01	2.1600-05
-2.6	7.6200-01	4.6500-06	1.1700-05	.0000+00	2.3800-01	1.6400-05
-2.4	8.0300-01	4.1800-06	8.2400-06	.0000+00	1.9700-01	1.2400-05
-2.2	8.3900-01	3.7000-06	5.7300-06	.0000+00	1.6100-01	9.4300-06
-2.0	8.6900-01	3.2300-06	3.9400-06	.0000+00	1.3100-01	7.1700-06
-1.8	8.9400-01	2.7900-06	2.6800-06	.0000+00	1.0600-01	5.4600-06
-1.6	9.1400-01	2.3800-06	1.8000-06	.0000+00	8.6000-02	4.1800-06
-1.4	9.3100-01	2.0100-06	1.2000-06	.0000+00	6.9200-02	3.2100-06
-1.2	9.4400-01	1.6800-06	7.9700-07	.0000+00	5.5600-02	2.4800-06
-1.0	9.5500-01	1.3900-06	5.2300-07	.0000+00	4.4500-02	1.9200-06
-.8	9.6400-01	1.1500-06	3.4200-07	.0000+00	3.5600-02	1.4900-06
-.6	9.7200-01	9.3900-07	2.2200-07	.0000+00	2.8400-02	1.1600-06
-.4	9.7700-01	7.6500-07	1.4300-07	.0000+00	2.2700-02	9.0800-07
-.2	9.8200-01	6.2000-07	9.2200-08	.0000+00	1.8100-02	7.1200-07
.0	9.8600-01	5.0100-07	5.9100-08	.0000+00	1.4400-02	5.6000-07
.2	9.8900-01	4.0400-07	3.7800-08	.0000+00	1.1500-02	4.4100-07
.4	9.9100-01	3.2500-07	2.4100-08	.0000+00	9.1100-03	3.4900-07
.6	9.9300-01	2.6100-07	1.5400-08	.0000+00	7.2400-03	2.7600-07
.8	9.9400-01	2.0900-07	9.8300-09	.0000+00	5.7500-03	2.1900-07
1.0	9.9500-01	1.6800-07	6.2800-09	.0000+00	4.5500-03	1.7400-07
1.2	9.9600-01	1.3500-07	4.0200-09	.0000+00	3.6000-03	1.3900-07
1.4	9.9700-01	1.0900-07	2.5900-09	.0000+00	2.8400-03	1.1200-07
1.6	9.9800-01	8.8900-08	1.6900-09	.0000+00	2.2300-03	9.0600-08
1.8	9.9800-01	7.3200-08	1.1100-09	.0000+00	1.7400-03	7.4300-08
2.0	9.9900-01	6.1400-08	7.5500-10	.0000+00	1.3400-03	6.2200-08
2.2	9.9900-01	5.3100-08	5.3200-10	.0000+00	1.0200-03	5.3600-08

T= 5300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0049+00	2.4705+01	2.6710+01	7.6537+01	-5.4100+00	2.0049+00
-6.8	2.0024+00	2.4635+01	2.6638+01	7.5545+01	-5.2106+00	2.0024+00
-6.6	1.9996+00	2.4562+01	2.6561+01	7.4550+01	-5.0112+00	1.9996+00
-6.4	1.9960+00	2.4475+01	2.6471+01	7.3543+01	-4.8120+00	1.9960+00
-6.2	1.9911+00	2.4362+01	2.6353+01	7.2512+01	-4.6130+00	1.9911+00
-6.0	1.9840+00	2.4205+01	2.6189+01	7.1439+01	-4.4146+00	1.9840+00
-5.8	1.9735+00	2.3977+01	2.5950+01	7.0299+01	-4.2169+00	1.9735+00
-5.6	1.9580+00	2.3644+01	2.5602+01	6.9061+01	-4.0203+00	1.9580+00
-5.4	1.9356+00	2.3163+01	2.5099+01	6.7683+01	-3.8253+00	1.9356+00
-5.2	1.9039+00	2.2487+01	2.4391+01	6.6123+01	-3.6325+00	1.9039+00
-5.0	1.8612+00	2.1577+01	2.3438+01	6.4346+01	-3.4423+00	1.8612+00
-4.8	1.8065+00	2.0415+01	2.2221+01	6.2338+01	-3.2553+00	1.8065+00
-4.6	1.7409+00	1.9019+01	2.0760+01	6.0125+01	-3.0714+00	1.7409+00
-4.4	1.6669+00	1.7447+01	1.9114+01	5.7768+01	-2.8902+00	1.6669+00
-4.2	1.5886+00	1.5782+01	1.7370+01	5.5354+01	-2.7111+00	1.5886+00
-4.0	1.5101+00	1.4114+01	1.5624+01	5.2972+01	-2.5331+00	1.5101+00
-3.8	1.4351+00	1.2519+01	1.3954+01	5.0699+01	-2.3552+00	1.4351+00
-3.6	1.3661+00	1.1052+01	1.2418+01	4.8588+01	-2.1767+00	1.3661+00
-3.4	1.3045+00	9.7450+00	1.1050+01	4.6666+01	-1.9967+00	1.3045+00
-3.2	1.2510+00	8.6079+00	9.8590+00	4.4941+01	-1.8149+00	1.2510+00
-3.0	1.2054+00	7.6379+00	8.8433+00	4.3405+01	-1.6310+00	1.2054+00
-2.8	1.1670+00	6.8230+00	7.9900+00	4.2044+01	-1.4450+00	1.1670+00
-2.6	1.1352+00	6.1464+00	7.2815+00	4.0838+01	-1.2571+00	1.1352+00
-2.4	1.1090+00	5.5899+00	6.6989+00	3.9765+01	-1.0672+00	1.1090+00
-2.2	1.0876+00	5.1355+00	6.2231+00	3.8805+01	-8.7565-01	1.0876+00
-2.0	1.0703+00	4.7666+00	5.8369+00	3.7939+01	-6.8264-01	1.0702+00
-1.8	1.0562+00	4.4686+00	5.5248+00	3.7152+01	-4.8836-01	1.0562+00
-1.6	1.0450+00	4.2286+00	5.2735+00	3.6428+01	-2.9303-01	1.0449+00
-1.4	1.0359+00	4.0359+00	5.0718+00	3.5756+01	-9.6803-02	1.0358+00
-1.2	1.0287+00	3.8815+00	4.9102+00	3.5126+01	1.0015-01	1.0286+00
-1.0	1.0229+00	3.7580+00	4.7809+00	3.4531+01	2.9772-01	1.0228+00
-.8	1.0184+00	3.6594+00	4.6778+00	3.3962+01	4.9578-01	1.0181+00
-.6	1.0148+00	3.5808+00	4.5955+00	3.3415+01	6.9425-01	1.0144+00
-.4	1.0120+00	3.5181+00	4.5301+00	3.2886+01	8.9308-01	1.0115+00
-.2	1.0100+00	3.4682+00	4.4782+00	3.2370+01	1.0922+00	1.0091+00
.0	1.0087+00	3.4284+00	4.4371+00	3.1866+01	1.2916+00	1.0073+00
.2	1.0080+00	3.3969+00	4.4049+00	3.1370+01	1.4913+00	1.0058+00
.4	1.0081+00	3.3718+00	4.3800+00	3.0881+01	1.6914+00	1.0046+00
.6	1.0093+00	3.3520+00	4.3613+00	3.0396+01	1.8919+00	1.0036+00
.8	1.0118+00	3.3364+00	4.3483+00	2.9916+01	2.0930+00	1.0029+00
1.0	1.0164+00	3.3243+00	4.3407+00	2.9436+01	2.2950+00	1.0023+00
1.2	1.0242+00	3.3151+00	4.3393+00	2.8958+01	2.4983+00	1.0018+00
1.4	1.0370+00	3.3084+00	4.3454+00	2.8477+01	2.7036+00	1.0014+00
1.6	1.0574+00	3.3043+00	4.3617+00	2.7990+01	2.9121+00	1.0011+00
1.8	1.0901+00	3.3027+00	4.3928+00	2.7495+01	3.1253+00	1.0009+00
2.0	1.1421+00	3.3044+00	4.4464+00	2.6984+01	3.3456+00	1.0007+00
2.2	1.2246+00	3.3102+00	4.5347+00	2.6446+01	3.5759+00	1.0005+00

T= 5400

LOG D	N2	N2+	N+	N++	N	E
-7.0	6.2600-04	3.7800-07	4.5800-03	.0000+00	9.9000-01	4.5800-03
-6.8	9.9400-04	4.7700-07	3.6500-03	.0000+00	9.9200-01	3.6500-03
-6.6	1.5800-03	6.0100-07	2.9000-03	.0000+00	9.9300-01	2.9000-03
-6.4	2.5000-03	7.5600-07	2.3000-03	.0000+00	9.9300-01	2.3100-03
-6.2	3.9400-03	9.5100-07	1.8300-03	.0000+00	9.9200-01	1.8300-03
-6.0	6.2200-03	1.1900-06	1.4600-03	.0000+00	9.9100-01	1.4600-03
-5.8	9.7600-03	1.4900-06	1.1600-03	.0000+00	9.8800-01	1.1600-03
-5.6	1.5200-02	1.8600-06	9.1900-04	.0000+00	9.8300-01	9.2000-04
-5.4	2.3500-02	2.3000-06	7.2900-04	.0000+00	9.7500-01	7.3200-04
-5.2	3.5900-02	2.8200-06	5.7900-04	.0000+00	9.6300-01	5.8200-04
-5.0	5.3900-02	3.4200-06	4.5900-04	.0000+00	9.4500-01	4.6200-04
-4.8	7.9100-02	4.0800-06	3.6300-04	.0000+00	9.2000-01	3.6700-04
-4.6	1.1300-01	4.7700-06	2.8700-04	.0000+00	8.8700-01	2.9200-04
-4.4	1.5600-01	5.4500-06	2.2600-04	.0000+00	8.4400-01	2.3100-04
-4.2	2.0800-01	6.0700-06	1.7700-04	.0000+00	7.9100-01	1.8300-04
-4.0	2.6800-01	6.5800-06	1.3700-04	.0000+00	7.3100-01	1.4400-04
-3.8	3.3400-01	6.9500-06	1.0600-04	.0000+00	6.6500-01	1.1300-04
-3.6	4.0400-01	7.1500-06	8.0800-05	.0000+00	5.9600-01	8.7900-05
-3.4	4.7400-01	7.1800-06	6.0900-05	.0000+00	5.2500-01	6.8100-05
-3.2	5.4300-01	7.0500-06	4.5400-05	.0000+00	4.5700-01	5.2500-05
-3.0	6.0800-01	6.7700-06	3.3400-05	.0000+00	3.9200-01	4.0200-05
-2.8	6.6800-01	6.3700-06	2.4300-05	.0000+00	3.3200-01	3.0700-05
-2.6	7.2100-01	5.8900-06	1.7400-05	.0000+00	2.7900-01	2.3300-05
-2.4	7.6800-01	5.3600-06	1.2400-05	.0000+00	2.3200-01	1.7700-05
-2.2	8.0900-01	4.8000-06	8.6700-06	.0000+00	1.9100-01	1.3500-05
-2.0	8.4400-01	4.2300-06	6.0100-06	.0000+00	1.5600-01	1.0200-05
-1.8	8.7300-01	3.6800-06	4.1200-06	.0000+00	1.2700-01	7.8000-06
-1.6	8.9700-01	3.1700-06	2.7900-06	.0000+00	1.0300-01	5.9600-06
-1.4	9.1700-01	2.6900-06	1.8700-06	.0000+00	8.3300-02	4.5700-06
-1.2	9.3300-01	2.2700-06	1.2500-06	.0000+00	6.7000-02	3.5100-06
-1.0	9.4600-01	1.8900-06	8.2400-07	.0000+00	5.3800-02	2.7100-06
-.8	9.5700-01	1.5700-06	5.4000-07	.0000+00	4.3100-02	2.1100-06
-.6	9.6600-01	1.2900-06	3.5200-07	.0000+00	3.4500-02	1.6400-06
-.4	9.7200-01	1.0500-06	2.2800-07	.0000+00	2.7500-02	1.2800-06
-.2	9.7800-01	8.5500-07	1.4700-07	.0000+00	2.1900-02	1.0000-06
.0	9.8300-01	6.9300-07	9.4500-08	.0000+00	1.7500-02	7.8700-07
.2	9.8600-01	5.5900-07	6.0600-08	.0000+00	1.3900-02	6.2000-07
.4	9.8900-01	4.5000-07	3.8700-08	.0000+00	1.1100-02	4.8900-07
.6	9.9100-01	3.6200-07	2.4800-08	.0000+00	8.8000-03	3.8700-07
.8	9.9300-01	2.9100-07	1.5800-08	.0000+00	6.9900-03	3.0700-07
1.0	9.9400-01	2.3400-07	1.0100-08	.0000+00	5.5400-03	2.4400-07
1.2	9.9600-01	1.8800-07	6.4800-09	.0000+00	4.3800-03	1.9500-07
1.4	9.9700-01	1.5200-07	4.1700-09	.0000+00	3.4600-03	1.5700-07
1.6	9.9700-01	1.2400-07	2.7100-09	.0000+00	2.7200-03	1.2700-07
1.8	9.9800-01	1.0200-07	1.7900-09	.0000+00	2.1200-03	1.0400-07
2.0	9.9800-01	8.5700-08	1.2100-09	.0000+00	1.6400-03	8.6900-08
2.2	9.9900-01	7.4200-08	8.5100-10	.0000+00	1.2400-03	7.5000-08

T= 5400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0079+00	2.4411+01	2.6419+01	7.6701+01	-5.4013+00	2.0079+00
-6.8	2.0053+00	2.4333+01	2.6339+01	7.5700+01	-5.2018+00	2.0053+00
-6.6	2.0026+00	2.4260+01	2.6263+01	7.4704+01	-5.0024+00	2.0026+00
-6.4	1.9996+00	2.4183+01	2.6182+01	7.3705+01	-4.8031+00	1.9996+00
-6.2	1.9958+00	2.4091+01	2.6087+01	7.2693+01	-4.6039+00	1.9958+00
-6.0	1.9905+00	2.3973+01	2.5963+01	7.1657+01	-4.4050+00	1.9905+00
-5.8	1.9829+00	2.3807+01	2.5790+01	7.0577+01	-4.2067+00	1.9829+00
-5.6	1.9718+00	2.3569+01	2.5541+01	6.9428+01	-4.0091+00	1.9718+00
-5.4	1.9554+00	2.3223+01	2.5178+01	6.8176+01	-3.8128+00	1.9554+00
-5.2	1.9317+00	2.2724+01	2.4656+01	6.6783+01	-3.6181+00	1.9317+00
-5.0	1.8985+00	2.2029+01	2.3927+01	6.5205+01	-3.4256+00	1.8985+00
-4.8	1.8540+00	2.1098+01	2.2952+01	6.3410+01	-3.2359+00	1.8540+00
-4.6	1.7976+00	1.9921+01	2.1719+01	6.1391+01	-3.0493+00	1.7976+00
-4.4	1.7305+00	1.8521+01	2.0251+01	5.9178+01	-2.8658+00	1.7305+00
-4.2	1.6557+00	1.6958+01	1.8614+01	5.6836+01	-2.6850+00	1.6557+00
-4.0	1.5770+00	1.5318+01	1.6895+01	5.4451+01	-2.5062+00	1.5770+00
-3.8	1.4989+00	1.3686+01	1.5185+01	5.2111+01	-2.3282+00	1.4989+00
-3.6	1.4246+00	1.2136+01	1.3561+01	4.9888+01	-2.1503+00	1.4246+00
-3.4	1.3566+00	1.0718+01	1.2074+01	4.7830+01	-1.9716+00	1.3566+00
-3.2	1.2962+00	9.4585+00	1.0755+01	4.5960+01	-1.7913+00	1.2962+00
-3.0	1.2439+00	8.3667+00	9.6106+00	4.4284+01	-1.6092+00	1.2439+00
-2.8	1.1993+00	7.4376+00	8.6370+00	4.2792+01	-1.4251+00	1.1993+00
-2.6	1.1620+00	6.6586+00	7.8205+00	4.1470+01	-1.2388+00	1.1620+00
-2.4	1.1310+00	6.0128+00	7.1438+00	4.0296+01	-1.0505+00	1.1310+00
-2.2	1.1056+00	5.4822+00	6.5878+00	3.9251+01	-8.6041-01	1.1056+00
-2.0	1.0849+00	5.0494+00	6.1343+00	3.8314+01	-6.6864-01	1.0848+00
-1.8	1.0680+00	4.6984+00	5.7664+00	3.7467+01	-4.7543-01	1.0680+00
-1.6	1.0544+00	4.4149+00	5.4693+00	3.6695+01	-2.8098-01	1.0544+00
-1.4	1.0435+00	4.1867+00	5.2302+00	3.5984+01	-8.5506-02	1.0435+00
-1.2	1.0348+00	4.0035+00	5.0383+00	3.5322+01	1.1084-01	1.0347+00
-1.0	1.0278+00	3.8568+00	4.8846+00	3.4701+01	3.0790-01	1.0276+00
-.8	1.0223+00	3.7395+00	4.7618+00	3.4111+01	5.0555-01	1.0220+00
-.6	1.0179+00	3.6459+00	4.6638+00	3.3548+01	7.0370-01	1.0175+00
-.4	1.0145+00	3.5712+00	4.5857+00	3.3005+01	9.0225-01	1.0139+00
-.2	1.0120+00	3.5117+00	4.5237+00	3.2479+01	1.1012+00	1.0111+00
.0	1.0102+00	3.4643+00	4.4746+00	3.1966+01	1.3004+00	1.0088+00
.2	1.0093+00	3.4267+00	4.4359+00	3.1464+01	1.5000+00	1.0070+00
.4	1.0091+00	3.3967+00	4.4059+00	3.0969+01	1.6999+00	1.0056+00
.6	1.0101+00	3.3730+00	4.3831+00	3.0480+01	1.9003+00	1.0044+00
.8	1.0124+00	3.3543+00	4.3668+00	2.9996+01	2.1014+00	1.0035+00
1.0	1.0169+00	3.3398+00	4.3567+00	2.9514+01	2.3033+00	1.0028+00
1.2	1.0246+00	3.3286+00	4.3532+00	2.9033+01	2.5065+00	1.0022+00
1.4	1.0372+00	3.3204+00	4.3576+00	2.8550+01	2.7119+00	1.0017+00
1.6	1.0576+00	3.3150+00	4.3726+00	2.8063+01	2.9203+00	1.0014+00
1.8	1.0901+00	3.3125+00	4.4026+00	2.7567+01	3.1335+00	1.0011+00
2.0	1.1419+00	3.3134+00	4.4553+00	2.7054+01	3.3536+00	1.0008+00
2.2	1.2242+00	3.3186+00	4.5429+00	2.6516+01	3.5839+00	1.0006+00

T= 5500

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.2700-04	3.6600-07	6.1600-03	.0000+00	9.8700-01	6.1600-03
-6.8	6.7800-04	4.6200-07	4.9000-03	.0000+00	9.9000-01	4.9000-03
-6.6	1.0800-03	5.8200-07	3.9000-03	.0000+00	9.9100-01	3.9000-03
-6.4	1.7100-03	7.3300-07	3.1000-03	.0000+00	9.9200-01	3.1000-03
-6.2	2.7000-03	9.2300-07	2.4600-03	.0000+00	9.9200-01	2.4700-03
-6.0	4.2700-03	1.1600-06	1.9600-03	.0000+00	9.9200-01	1.9600-03
-5.8	6.7300-03	1.4500-06	1.5600-03	.0000+00	9.9000-01	1.5600-03
-5.6	1.0600-02	1.8200-06	1.2400-03	.0000+00	9.8700-01	1.2400-03
-5.4	1.6400-02	2.2600-06	9.8200-04	.0000+00	9.8200-01	9.8500-04
-5.2	2.5400-02	2.8000-06	7.8000-04	.0000+00	9.7300-01	7.8300-04
-5.0	3.8700-02	3.4200-06	6.1900-04	.0000+00	9.6000-01	6.2200-04
-4.8	5.7800-02	4.1400-06	4.9000-04	.0000+00	9.4100-01	4.9500-04
-4.6	8.4400-02	4.9200-06	3.8800-04	.0000+00	9.1500-01	3.9300-04
-4.4	1.2000-01	5.7300-06	3.0600-04	.0000+00	8.8000-01	3.1200-04
-4.2	1.6400-01	6.5200-06	2.4100-04	.0000+00	8.3500-01	2.4700-04
-4.0	2.1800-01	7.2200-06	1.8800-04	.0000+00	7.8100-01	1.9500-04
-3.8	2.8000-01	7.7900-06	1.4600-04	.0000+00	7.2000-01	1.5400-04
-3.6	3.4700-01	8.1900-06	1.1200-04	.0000+00	6.5300-01	1.2100-04
-3.4	4.1600-01	8.3800-06	8.5500-05	.0000+00	5.8300-01	9.3900-05
-3.2	4.8700-01	8.3800-06	6.4300-05	.0000+00	5.1300-01	7.2700-05
-3.0	5.5500-01	8.1800-06	4.7800-05	.0000+00	4.4500-01	5.6000-05
-2.8	6.1900-01	7.8300-06	3.5100-05	.0000+00	3.8100-01	4.2900-05
-2.6	6.7800-01	7.3400-06	2.5400-05	.0000+00	3.2200-01	3.2800-05
-2.4	7.3000-01	6.7600-06	1.8200-05	.0000+00	2.7000-01	2.4900-05
-2.2	7.7600-01	6.1200-06	1.2900-05	.0000+00	2.2400-01	1.9000-05
-2.0	8.1600-01	5.4500-06	8.9800-06	.0000+00	1.8400-01	1.4400-05
-1.8	8.4900-01	4.7900-06	6.2000-06	.0000+00	1.5100-01	1.1000-05
-1.6	8.7700-01	4.1600-06	4.2300-06	.0000+00	1.2300-01	8.3900-06
-1.4	9.0100-01	3.5600-06	2.8600-06	.0000+00	9.9400-02	6.4200-06
-1.2	9.2000-01	3.0200-06	1.9200-06	.0000+00	8.0200-02	4.9300-06
-1.0	9.3500-01	2.5300-06	1.2700-06	.0000+00	6.4500-02	3.8000-06
-.8	9.4800-01	2.1100-06	8.3700-07	.0000+00	5.1700-02	2.9400-06
-.6	9.5900-01	1.7400-06	5.4800-07	.0000+00	4.1400-02	2.2900-06
-.4	9.6700-01	1.4300-06	3.5600-07	.0000+00	3.3100-02	1.7800-06
-.2	9.7400-01	1.1600-06	2.3000-07	.0000+00	2.6400-02	1.4000-06
.0	9.7900-01	9.4600-07	1.4800-07	.0000+00	2.1100-02	1.0900-06
.2	9.8300-01	7.6600-07	9.5300-08	.0000+00	1.6800-02	8.6100-07
.4	9.8700-01	6.1800-07	6.1100-08	.0000+00	1.3400-02	6.7900-07
.6	9.8900-01	4.9800-07	3.9100-08	.0000+00	1.0600-02	5.3700-07
.8	9.9200-01	4.0000-07	2.5000-08	.0000+00	8.4400-03	4.2500-07
1.0	9.9300-01	3.2200-07	1.6000-08	.0000+00	6.6900-03	3.3800-07
1.2	9.9500-01	2.6000-07	1.0200-08	.0000+00	5.3000-03	2.7000-07
1.4	9.9600-01	2.1000-07	6.6000-09	.0000+00	4.1800-03	2.1700-07
1.6	9.9700-01	1.7100-07	4.2900-09	.0000+00	3.2800-03	1.7500-07
1.8	9.9700-01	1.4100-07	2.8300-09	.0000+00	2.5600-03	1.4400-07
2.0	9.9800-01	1.1800-07	1.9100-09	.0000+00	1.9800-03	1.2000-07
2.2	9.9800-01	1.0200-07	1.3400-09	.0000+00	1.5000-03	1.0400-07



T= 5500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0115+00	2.4148+01	2.6159+01	7.6884+01	-5.3925+00	2.0115+00
-6.8	2.0085+00	2.4056+01	2.6064+01	7.5866+01	-5.1932+00	2.0085+00
-6.6	2.0057+00	2.3974+01	2.5980+01	7.4860+01	-4.9938+00	2.0057+00
-6.4	2.0028+00	2.3897+01	2.5900+01	7.3860+01	-4.7944+00	2.0028+00
-6.2	1.9995+00	2.3815+01	2.5815+01	7.2856+01	-4.5951+00	1.9995+00
-6.0	1.9954+00	2.3718+01	2.5714+01	7.1840+01	-4.3960+00	1.9954+00
-5.8	1.9897+00	2.3593+01	2.5582+01	7.0796+01	-4.1972+00	1.9897+00
-5.6	1.9815+00	2.3418+01	2.5400+01	6.9707+01	-3.9990+00	1.9815+00
-5.4	1.9696+00	2.3166+01	2.5136+01	6.8546+01	-3.8017+00	1.9696+00
-5.2	1.9520+00	2.2802+01	2.4754+01	6.7278+01	-3.6056+00	1.9520+00
-5.0	1.9267+00	2.2281+01	2.4207+01	6.5863+01	-3.4112+00	1.9267+00
-4.8	1.8916+00	2.1558+01	2.3450+01	6.4261+01	-3.2192+00	1.8916+00
-4.6	1.8450+00	2.0601+01	2.2446+01	6.2443+01	-3.0300+00	1.8450+00
-4.4	1.7866+00	1.9403+01	2.1189+01	6.0408+01	-2.8440+00	1.7866+00
-4.2	1.7179+00	1.7994+01	1.9712+01	5.8192+01	-2.6610+00	1.7179+00
-4.0	1.6420+00	1.6439+01	1.8081+01	5.5864+01	-2.4807+00	1.6420+00
-3.8	1.5632+00	1.4824+01	1.6387+01	5.3510+01	-2.3020+00	1.5632+00
-3.6	1.4854+00	1.3231+01	1.4716+01	5.1215+01	-2.1242+00	1.4854+00
-3.4	1.4121+00	1.1728+01	1.3140+01	4.9046+01	-1.9462+00	1.4121+00
-3.2	1.3454+00	1.0361+01	1.1707+01	4.7044+01	-1.7672+00	1.3454+00
-3.0	1.2864+00	9.1533+00	1.0440+01	4.5230+01	-1.5867+00	1.2864+00
-2.8	1.2355+00	8.1097+00	9.3452+00	4.3606+01	-1.4042+00	1.2355+00
-2.6	1.1923+00	7.2242+00	8.4165+00	4.2162+01	-1.2197+00	1.1923+00
-2.4	1.1561+00	6.4833+00	7.6394+00	4.0881+01	-1.0330+00	1.1561+00
-2.2	1.1262+00	5.8703+00	6.9964+00	3.9742+01	-8.4443-01	1.1262+00
-2.0	1.1016+00	5.3673+00	6.4690+00	3.8727+01	-6.5400-01	1.1016+00
-1.8	1.0816+00	4.9575+00	6.0391+00	3.7814+01	-4.6196-01	1.0816+00
-1.6	1.0654+00	4.6254+00	5.6908+00	3.6988+01	-2.6851-01	1.0654+00
-1.4	1.0524+00	4.3573+00	5.4097+00	3.6232+01	-7.3873-02	1.0523+00
-1.2	1.0419+00	4.1417+00	5.1835+00	3.5535+01	1.2177-01	1.0418+00
-1.0	1.0335+00	3.9686+00	5.0021+00	3.4884+01	3.1826-01	1.0333+00
-.8	1.0268+00	3.8301+00	4.8569+00	3.4271+01	5.1545-01	1.0266+00
-.6	1.0215+00	3.7194+00	4.7409+00	3.3689+01	7.1321-01	1.0212+00
-.4	1.0174+00	3.6310+00	4.6484+00	3.3131+01	9.1146-01	1.0168+00
-.2	1.0143+00	3.5605+00	4.5748+00	3.2593+01	1.1101+00	1.0134+00
.0	1.0121+00	3.5044+00	4.5165+00	3.2070+01	1.3092+00	1.0107+00
.2	1.0107+00	3.4597+00	4.4704+00	3.1559+01	1.5086+00	1.0085+00
.4	1.0103+00	3.4242+00	4.4345+00	3.1059+01	1.7084+00	1.0067+00
.6	1.0110+00	3.3961+00	4.4070+00	3.0565+01	1.9087+00	1.0053+00
.8	1.0132+00	3.3738+00	4.3870+00	3.0077+01	2.1096+00	1.0042+00
1.0	1.0175+00	3.3564+00	4.3739+00	2.9592+01	2.3115+00	1.0034+00
1.2	1.0250+00	3.3430+00	4.3680+00	2.9108+01	2.5147+00	1.0027+00
1.4	1.0375+00	3.3330+00	4.3705+00	2.8624+01	2.7200+00	1.0021+00
1.6	1.0578+00	3.3262+00	4.3840+00	2.8135+01	2.9284+00	1.0016+00
1.8	1.0902+00	3.3226+00	4.4128+00	2.7637+01	3.1415+00	1.0013+00
2.0	1.1418+00	3.3226+00	4.4644+00	2.7124+01	3.3616+00	1.0010+00
2.2	1.2239+00	3.3272+00	4.5511+00	2.6586+01	3.5917+00	1.0008+00

T= 5600

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.9400-04	3.5300-07	8.1800-03	.0000+00	9.8300-01	8.1800-03
-6.8	4.6900-04	4.4600-07	6.5100-03	.0000+00	9.8700-01	6.5100-03
-6.6	7.4600-04	5.6300-07	5.1800-03	.0000+00	9.8900-01	5.1900-03
-6.4	1.1800-03	7.1100-07	4.1200-03	.0000+00	9.9100-01	4.1300-03
-6.2	1.8800-03	8.9500-07	3.2800-03	.0000+00	9.9200-01	3.2800-03
-6.0	2.9700-03	1.1300-06	2.6100-03	.0000+00	9.9200-01	2.6100-03
-5.8	4.6900-03	1.4100-06	2.0700-03	.0000+00	9.9100-01	2.0700-03
-5.6	7.3900-03	1.7700-06	1.6500-03	.0000+00	9.8900-01	1.6500-03
-5.4	1.1600-02	2.2100-06	1.3100-03	.0000+00	9.8600-01	1.3100-03
-5.2	1.8000-02	2.7500-06	1.0400-03	.0000+00	9.8000-01	1.0400-03
-5.0	2.7700-02	3.4000-06	8.2500-04	.0000+00	9.7100-01	8.2900-04
-4.8	4.2100-02	4.1500-06	6.5500-04	.0000+00	9.5700-01	6.5900-04
-4.6	6.2600-02	5.0000-06	5.1900-04	.0000+00	9.3600-01	5.2400-04
-4.4	9.1000-02	5.9200-06	4.1000-04	.0000+00	9.0800-01	4.1600-04
-4.2	1.2800-01	6.8700-06	3.2300-04	.0000+00	8.7100-01	3.3000-04
-4.0	1.7500-01	7.7700-06	2.5400-04	.0000+00	8.2500-01	2.6200-04
-3.8	2.3000-01	8.5600-06	1.9800-04	.0000+00	7.6900-01	2.0700-04
-3.6	2.9300-01	9.1800-06	1.5300-04	.0000+00	7.0700-01	1.6300-04
-3.4	3.6100-01	9.5900-06	1.1800-04	.0000+00	6.3900-01	1.2700-04
-3.2	4.3100-01	9.7600-06	8.9400-05	.0000+00	5.6900-01	9.9100-05
-3.0	5.0100-01	9.7000-06	6.7000-05	.0000+00	4.9900-01	7.6700-05
-2.8	5.6800-01	9.4300-06	4.9600-05	.0000+00	4.3100-01	5.9100-05
-2.6	6.3100-01	8.9700-06	3.6300-05	.0000+00	3.6800-01	4.5300-05
-2.4	6.8900-01	8.3700-06	2.6200-05	.0000+00	3.1100-01	3.4600-05
-2.2	7.4000-01	7.6700-06	1.8700-05	.0000+00	2.6000-01	2.6400-05
-2.0	7.8500-01	6.9100-06	1.3200-05	.0000+00	2.1500-01	2.0100-05
-1.8	8.2300-01	6.1300-06	9.1500-06	.0000+00	1.7700-01	1.5300-05
-1.6	8.5500-01	5.3700-06	6.3000-06	.0000+00	1.4500-01	1.1700-05
-1.4	8.8200-01	4.6400-06	4.2800-06	.0000+00	1.1800-01	8.9200-06
-1.2	9.0500-01	3.9600-06	2.8900-06	.0000+00	9.5100-02	6.8400-06
-1.0	9.2300-01	3.3400-06	1.9300-06	.0000+00	7.6700-02	5.2700-06
-.8	9.3800-01	2.8000-06	1.2700-06	.0000+00	6.1600-02	4.0700-06
-.6	9.5100-01	2.3200-06	8.3700-07	.0000+00	4.9400-02	3.1600-06
-.4	9.6000-01	1.9100-06	5.4600-07	.0000+00	3.9600-02	2.4600-06
-.2	9.6800-01	1.5700-06	3.5500-07	.0000+00	3.1600-02	1.9200-06
.0	9.7500-01	1.2800-06	2.2900-07	.0000+00	2.5200-02	1.5000-06
.2	9.8000-01	1.0300-06	1.4700-07	.0000+00	2.0100-02	1.1800-06
.4	9.8400-01	8.3600-07	9.4600-08	.0000+00	1.6000-02	9.3100-07
.6	9.8700-01	6.7500-07	6.0600-08	.0000+00	1.2700-02	7.3500-07
.8	9.9000-01	5.4400-07	3.8800-08	.0000+00	1.0100-02	5.8200-07
1.0	9.9200-01	4.3800-07	2.4800-08	.0000+00	8.0200-03	4.6300-07
1.2	9.9400-01	3.5300-07	1.5900-08	.0000+00	6.3500-03	3.6900-07
1.4	9.9500-01	2.8600-07	1.0300-08	.0000+00	5.0100-03	2.9600-07
1.6	9.9600-01	2.3300-07	6.6700-09	.0000+00	3.9400-03	2.4000-07
1.8	9.9700-01	1.9200-07	4.4000-09	.0000+00	3.0800-03	1.9700-07
2.0	9.9800-01	1.6100-07	2.9600-09	.0000+00	2.3700-03	1.6400-07
2.2	9.9800-01	1.4000-07	2.0700-09	.0000+00	1.8000-03	1.4200-07

T= 5600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0159+00	2.3922+01	2.5938+01	7.7090+01	-5.3837+00	2.0159+00
-6.8	2.0122+00	2.3808+01	2.5820+01	7.6049+01	-5.1845+00	2.0122+00
-6.6	2.0089+00	2.3712+01	2.5721+01	7.5027+01	-4.9852+00	2.0089+00
-6.4	2.0059+00	2.3626+01	2.5632+01	7.4017+01	-4.7859+00	2.0059+00
-6.2	2.0028+00	2.3545+01	2.5548+01	7.3013+01	-4.5866+00	2.0028+00
-6.0	1.9993+00	2.3458+01	2.5457+01	7.2004+01	-4.3873+00	1.9993+00
-5.8	1.9948+00	2.3355+01	2.5350+01	7.0982+01	-4.1883+00	1.9948+00
-5.6	1.9886+00	2.3221+01	2.5209+01	6.9930+01	-3.9897+00	1.9886+00
-5.4	1.9797+00	2.3034+01	2.5013+01	6.8829+01	-3.7916+00	1.9797+00
-5.2	1.9666+00	2.2765+01	2.4732+01	6.7652+01	-3.5945+00	1.9666+00
-5.0	1.9476+00	2.2377+01	2.4325+01	6.6362+01	-3.3987+00	1.9476+00
-4.8	1.9204+00	2.1827+01	2.3747+01	6.4921+01	-3.2048+00	1.9204+00
-4.6	1.8830+00	2.1070+01	2.2953+01	6.3288+01	-3.0134+00	1.8830+00
-4.4	1.8339+00	2.0080+01	2.1914+01	6.1441+01	-2.8248+00	1.8339+00
-4.2	1.7732+00	1.8855+01	2.0628+01	5.9386+01	-2.6395+00	1.7732+00
-4.0	1.7026+00	1.7435+01	1.9137+01	5.7164+01	-2.4571+00	1.7026+00
-3.8	1.6258+00	1.5888+01	1.7513+01	5.4851+01	-2.2771+00	1.6258+00
-3.6	1.5469+00	1.4298+01	1.5845+01	5.2531+01	-2.0988+00	1.5469+00
-3.4	1.4698+00	1.2747+01	1.4217+01	5.0285+01	-1.9210+00	1.4698+00
-3.2	1.3977+00	1.1295+01	1.2693+01	4.8173+01	-1.7428+00	1.3977+00
-3.0	1.3325+00	9.9835+00	1.1316+01	4.6233+01	-1.5635+00	1.3325+00
-2.8	1.2752+00	8.8301+00	1.0105+01	4.4479+01	-1.3826+00	1.2752+00
-2.6	1.2259+00	7.8378+00	9.0637+00	4.2911+01	-1.1998+00	1.2259+00
-2.4	1.1842+00	6.9986+00	8.1828+00	4.1517+01	-1.0148+00	1.1842+00
-2.2	1.1494+00	6.2982+00	7.4476+00	4.0280+01	-8.2774-01	1.1494+00
-2.0	1.1207+00	5.7198+00	6.8404+00	3.9179+01	-6.3873-01	1.1207+00
-1.8	1.0971+00	5.2459+00	6.3431+00	3.8195+01	-4.4795-01	1.0971+00
-1.6	1.0780+00	4.8603+00	5.9383+00	3.7308+01	-2.5560-01	1.0780+00
-1.4	1.0625+00	4.5481+00	5.6106+00	3.6503+01	-6.1885-02	1.0624+00
-1.2	1.0500+00	4.2963+00	5.3463+00	3.5765+01	1.3298-01	1.0499+00
-1.0	1.0400+00	4.0939+00	5.1339+00	3.5082+01	3.2883-01	1.0399+00
-.8	1.0320+00	3.9315+00	4.9636+00	3.4442+01	5.2548-01	1.0318+00
-.6	1.0257+00	3.8016+00	4.8273+00	3.3839+01	7.2281-01	1.0253+00
-.4	1.0207+00	3.6978+00	4.7185+00	3.3264+01	9.2071-01	1.0202+00
-.2	1.0170+00	3.6149+00	4.6319+00	3.2712+01	1.1191+00	1.0161+00
.0	1.0142+00	3.5489+00	4.5631+00	3.2178+01	1.3179+00	1.0128+00
.2	1.0124+00	3.4963+00	4.5087+00	3.1659+01	1.5171+00	1.0102+00
.4	1.0116+00	3.4545+00	4.4661+00	3.1151+01	1.7168+00	1.0081+00
.6	1.0120+00	3.4213+00	4.4333+00	3.0652+01	1.9170+00	1.0064+00
.8	1.0140+00	3.3950+00	4.4090+00	3.0159+01	2.1178+00	1.0051+00
1.0	1.0181+00	3.3744+00	4.3926+00	2.9671+01	2.3196+00	1.0040+00
1.2	1.0255+00	3.3584+00	4.3840+00	2.9184+01	2.5227+00	1.0032+00
1.4	1.0379+00	3.3464+00	4.3843+00	2.8697+01	2.7279+00	1.0025+00
1.6	1.0580+00	3.3380+00	4.3960+00	2.8207+01	2.9363+00	1.0020+00
1.8	1.0903+00	3.3331+00	4.4234+00	2.7708+01	3.1493+00	1.0015+00
2.0	1.1418+00	3.3321+00	4.4739+00	2.7194+01	3.3694+00	1.0012+00
2.2	1.2237+00	3.3360+00	4.5596+00	2.6654+01	3.5994+00	1.0009+00

T= 5700

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.0500-04	3.4100-07	1.0800-02	2.0700-18	9.7800-01	1.0800-02
-6.8	3.2700-04	4.3200-07	8.5700-03	1.3100-18	9.8300-01	8.5700-03
-6.6	5.2100-04	5.4600-07	6.8200-03	8.2900-19	9.8600-01	6.8200-03
-6.4	8.2900-04	6.8900-07	5.4300-03	5.2400-19	9.8800-01	5.4300-03
-6.2	1.3200-03	8.6900-07	4.3200-03	3.3100-19	9.9000-01	4.3200-03
-6.0	2.0900-03	1.0900-06	3.4400-03	2.0900-19	9.9100-01	3.4400-03
-5.8	3.3000-03	1.3800-06	2.7300-03	1.3200-19	9.9100-01	2.7300-03
-5.6	5.2100-03	1.7300-06	2.1700-03	8.3600-20	9.9000-01	2.1700-03
-5.4	8.2000-03	2.1700-06	1.7300-03	5.2900-20	9.8800-01	1.7300-03
-5.2	1.2800-02	2.7000-06	1.3700-03	3.3500-20	9.8400-01	1.3700-03
-5.0	1.9900-02	3.3600-06	1.0900-03	2.1300-20	9.7800-01	1.0900-03
-4.8	3.0600-02	4.1300-06	8.6500-04	1.3600-20	9.6800-01	8.6900-04
-4.6	4.6200-02	5.0300-06	6.8600-04	8.6700-21	9.5200-01	6.9100-04
-4.4	6.8500-02	6.0400-06	5.4300-04	5.5700-21	9.3000-01	5.4900-04
-4.2	9.8800-02	7.1200-06	4.2900-04	3.5900-21	9.0000-01	4.3600-04
-4.0	1.3800-01	8.2100-06	3.3800-04	2.3300-21	8.6100-01	3.4600-04
-3.8	1.8700-01	9.2300-06	2.6500-04	1.5200-21	8.1200-01	2.7400-04
-3.6	2.4400-01	1.0100-05	2.0600-04	9.9100-22	7.5500-01	2.1700-04
-3.4	3.0900-01	1.0800-05	1.5900-04	6.4600-22	6.9100-01	1.7000-04
-3.2	3.7700-01	1.1200-05	1.2200-04	4.2000-22	6.2300-01	1.3300-04
-3.0	4.4700-01	1.1300-05	9.2300-05	2.7100-22	5.5200-01	1.0400-04
-2.8	5.1700-01	1.1200-05	6.9000-05	1.7300-22	4.8300-01	8.0100-05
-2.6	5.8400-01	1.0800-05	5.0900-05	1.0900-22	4.1600-01	6.1700-05
-2.4	6.4500-01	1.0200-05	3.7100-05	6.8100-23	3.5500-01	4.7300-05
-2.2	7.0100-01	9.4700-06	2.6700-05	4.1800-23	2.9900-01	3.6100-05
-2.0	7.5100-01	8.6300-06	1.8900-05	2.5300-23	2.4900-01	2.7600-05
-1.8	7.9400-01	7.7400-06	1.3300-05	1.5000-23	2.0600-01	2.1000-05
-1.6	8.3100-01	6.8400-06	9.1900-06	8.8000-24	1.6900-01	1.6000-05
-1.4	8.6200-01	5.9600-06	6.3000-06	5.0600-24	1.3800-01	1.2300-05
-1.2	8.8800-01	5.1200-06	4.2700-06	2.8700-24	1.1200-01	9.3900-06
-1.0	9.1000-01	4.3600-06	2.8700-06	1.6000-24	9.0500-02	7.2200-06
-.8	9.2700-01	3.6700-06	1.9100-06	8.7800-25	7.2900-02	5.5700-06
-.6	9.4100-01	3.0600-06	1.2600-06	4.7600-25	5.8500-02	4.3200-06
-.4	9.5300-01	2.5300-06	8.2400-07	2.5500-25	4.6900-02	3.3500-06
-.2	9.6200-01	2.0800-06	5.3700-07	1.3500-25	3.7500-02	2.6200-06
.0	9.7000-01	1.7000-06	3.4800-07	7.0800-26	3.0000-02	2.0500-06
.2	9.7600-01	1.3800-06	2.2400-07	3.6900-26	2.3900-02	1.6100-06
.4	9.8100-01	1.1200-06	1.4400-07	1.9000-26	1.9100-02	1.2600-06
.6	9.8500-01	9.0500-07	9.2600-08	9.7800-27	1.5200-02	9.9800-07
.8	9.8800-01	7.3100-07	5.9300-08	5.0000-27	1.2100-02	7.9000-07
1.0	9.9000-01	5.8900-07	3.8000-08	2.5400-27	9.5600-03	6.2700-07
1.2	9.9200-01	4.7600-07	2.4400-08	1.2800-27	7.5700-03	5.0000-07
1.4	9.9400-01	3.8600-07	1.5700-08	6.4200-28	5.9800-03	4.0100-07
1.6	9.9500-01	3.1500-07	1.0200-08	3.1900-28	4.7000-03	3.2500-07
1.8	9.9600-01	2.5900-07	6.7300-09	1.5600-28	3.6700-03	2.6600-07
2.0	9.9700-01	2.1800-07	4.5300-09	.0000+00	2.8300-03	2.2300-07
2.2	9.9800-01	1.8900-07	3.1500-09	.0000+00	2.1500-03	1.9200-07

T= 5700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0213+00	2.3738+01	2.5759+01	7.7329+01	-5.3749+00	2.0213+00
-6.8	2.0166+00	2.3595+01	2.5612+01	7.6256+01	-5.1759+00	2.0166+00
-6.6	2.0127+00	2.3477+01	2.5490+01	7.5210+01	-4.9767+00	2.0127+00
-6.4	2.0092+00	2.3377+01	2.5387+01	7.4184+01	-4.7775+00	2.0092+00
-6.2	2.0060+00	2.3288+01	2.5294+01	7.3171+01	-4.5782+00	2.0060+00
-6.0	2.0027+00	2.3203+01	2.5205+01	7.2162+01	-4.3789+00	2.0027+00
-5.8	1.9989+00	2.3111+01	2.5109+01	7.1148+01	-4.1797+00	1.9989+00
-5.6	1.9939+00	2.3000+01	2.4994+01	7.0119+01	-3.9808+00	1.9939+00
-5.4	1.9871+00	2.2856+01	2.4843+01	6.9057+01	-3.7823+00	1.9871+00
-5.2	1.9773+00	2.2654+01	2.4631+01	6.7943+01	-3.5844+00	1.9773+00
-5.0	1.9630+00	2.2365+01	2.4328+01	6.6746+01	-3.3876+00	1.9630+00
-4.8	1.9423+00	2.1949+01	2.3891+01	6.5430+01	-3.1922+00	1.9423+00
-4.6	1.9128+00	2.1363+01	2.3276+01	6.3957+01	-2.9988+00	1.9128+00
-4.4	1.8727+00	2.0567+01	2.2439+01	6.2288+01	-2.8080+00	1.8727+00
-4.2	1.8208+00	1.9538+01	2.1358+01	6.0408+01	-2.6203+00	1.8208+00
-4.0	1.7576+00	1.8284+01	2.0042+01	5.8330+01	-2.4356+00	1.7576+00
-3.8	1.6852+00	1.6852+01	1.8537+01	5.6105+01	-2.2539+00	1.6852+00
-3.6	1.6075+00	1.5314+01	1.6921+01	5.3809+01	-2.0744+00	1.6075+00
-3.4	1.5286+00	1.3754+01	1.5282+01	5.1526+01	-1.8962+00	1.5286+00
-3.2	1.4525+00	1.2247+01	1.3699+01	4.9333+01	-1.7184+00	1.4525+00
-3.0	1.3818+00	1.0850+01	1.2231+01	4.7284+01	-1.5401+00	1.3818+00
-2.8	1.3185+00	9.5956+00	1.0914+01	4.5408+01	-1.3605+00	1.3185+00
-2.6	1.2630+00	8.4992+00	9.7622+00	4.3718+01	-1.1791+00	1.2630+00
-2.4	1.2155+00	7.5600+00	8.7756+00	4.2208+01	-9.9576-01	1.2155+00
-2.2	1.1755+00	6.7684+00	7.9439+00	4.0866+01	-8.1029-01	1.1755+00
-2.0	1.1422+00	6.1095+00	7.2517+00	3.9674+01	-6.2278-01	1.1422+00
-1.8	1.1148+00	5.5665+00	6.6812+00	3.8611+01	-4.3334-01	1.1147+00
-1.6	1.0923+00	5.1224+00	6.2147+00	3.7659+01	-2.4217-01	1.0923+00
-1.4	1.0741+00	4.7615+00	5.8356+00	3.6799+01	-4.9482-02	1.0740+00
-1.2	1.0594+00	4.4695+00	5.5289+00	3.6016+01	1.4452-01	1.0593+00
-1.0	1.0475+00	4.2343+00	5.2818+00	3.5296+01	3.3964-01	1.0474+00
-.8	1.0381+00	4.0453+00	5.0833+00	3.4627+01	5.3569-01	1.0378+00
-.6	1.0305+00	3.8938+00	4.9243+00	3.3999+01	7.3253-01	1.0302+00
-.4	1.0246+00	3.7725+00	4.7971+00	3.3405+01	9.3003-01	1.0240+00
-.2	1.0200+00	3.6757+00	4.6958+00	3.2837+01	1.1281+00	1.0191+00
.0	1.0166+00	3.5985+00	4.6151+00	3.2291+01	1.3266+00	1.0152+00
.2	1.0144+00	3.5369+00	4.5513+00	3.1762+01	1.5257+00	1.0121+00
.4	1.0132+00	3.4880+00	4.5011+00	3.1246+01	1.7252+00	1.0096+00
.6	1.0133+00	3.4491+00	4.4623+00	3.0741+01	1.9252+00	1.0076+00
.8	1.0150+00	3.4183+00	4.4332+00	3.0243+01	2.1259+00	1.0061+00
1.0	1.0189+00	3.3940+00	4.4129+00	2.9751+01	2.3276+00	1.0048+00
1.2	1.0261+00	3.3751+00	4.4012+00	2.9261+01	2.5307+00	1.0038+00
1.4	1.0383+00	3.3608+00	4.3991+00	2.8771+01	2.7358+00	1.0030+00
1.6	1.0583+00	3.3505+00	4.4088+00	2.8279+01	2.9441+00	1.0024+00
1.8	1.0904+00	3.3442+00	4.4346+00	2.7778+01	3.1571+00	1.0018+00
2.0	1.1418+00	3.3420+00	4.4838+00	2.7263+01	3.3770+00	1.0014+00
2.2	1.2234+00	3.3450+00	4.5684+00	2.6723+01	3.6070+00	1.0011+00

T= 5800

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.4500-04	3.2900-07	1.4000-02	4.8600-18	9.7200-01	1.4000-02
-6.8	2.3100-04	4.1800-07	1.1200-02	3.0800-18	9.7700-01	1.1200-02
-6.6	3.6900-04	5.2900-07	8.8900-03	1.9500-18	9.8200-01	8.8900-03
-6.4	5.8700-04	6.6800-07	7.0800-03	1.2300-18	9.8500-01	7.0800-03
-6.2	9.3300-04	8.4400-07	5.6400-03	7.7700-19	9.8800-01	5.6400-03
-6.0	1.4800-03	1.0600-06	4.4900-03	4.9100-19	9.9000-01	4.4900-03
-5.8	2.3500-03	1.3400-06	3.5700-03	3.1100-19	9.9100-01	3.5700-03
-5.6	3.7200-03	1.6900-06	2.8400-03	1.9600-19	9.9100-01	2.8400-03
-5.4	5.8600-03	2.1200-06	2.2500-03	1.2400-19	9.9000-01	2.2600-03
-5.2	9.2100-03	2.6500-06	1.7900-03	7.8600-20	9.8700-01	1.7900-03
-5.0	1.4400-02	3.3000-06	1.4200-03	4.9800-20	9.8300-01	1.4300-03
-4.8	2.2300-02	4.0900-06	1.1300-03	3.1700-20	9.7500-01	1.1300-03
-4.6	3.4100-02	5.0300-06	8.9700-04	2.0200-20	9.6400-01	9.0200-04
-4.4	5.1300-02	6.1000-06	7.1100-04	1.2900-20	9.4700-01	7.1700-04
-4.2	7.5500-02	7.2900-06	5.6300-04	8.3000-21	9.2300-01	5.7000-04
-4.0	1.0800-01	8.5500-06	4.4500-04	5.3700-21	8.9100-01	4.5300-04
-3.8	1.5000-01	9.7900-06	3.5000-04	3.4800-21	8.4900-01	3.6000-04
-3.6	2.0100-01	1.0900-05	2.7400-04	2.2700-21	7.9800-01	2.8500-04
-3.4	2.6000-01	1.1900-05	2.1300-04	1.4800-21	7.3900-01	2.2500-04
-3.2	3.2600-01	1.2600-05	1.6400-04	9.6400-22	6.7400-01	1.7600-04
-3.0	3.9500-01	1.2900-05	1.2500-04	6.2500-22	6.0400-01	1.3800-04
-2.8	4.6600-01	1.3000-05	9.4200-05	4.0200-22	5.3400-01	1.0700-04
-2.6	5.3500-01	1.2800-05	7.0100-05	2.5600-22	4.6500-01	8.2900-05
-2.4	6.0000-01	1.2200-05	5.1500-05	1.6100-22	4.0000-01	6.3800-05
-2.2	6.6100-01	1.1500-05	3.7400-05	9.9600-23	3.3900-01	4.8900-05
-2.0	7.1500-01	1.0600-05	2.6700-05	6.0800-23	2.8500-01	3.7400-05
-1.8	7.6300-01	9.6300-06	1.8900-05	3.6500-23	2.3700-01	2.8500-05
-1.6	8.0400-01	8.5900-06	1.3200-05	2.1600-23	1.9600-01	2.1800-05
-1.4	8.4000-01	7.5500-06	9.1000-06	1.2500-23	1.6000-01	1.6700-05
-1.2	8.6900-01	6.5500-06	6.2100-06	7.1600-24	1.3100-01	1.2800-05
-1.0	8.9400-01	5.6100-06	4.1900-06	4.0200-24	1.0600-01	9.8000-06
-.8	9.1400-01	4.7500-06	2.8000-06	2.2300-24	8.5500-02	7.5500-06
-.6	9.3100-01	3.9800-06	1.8600-06	1.2200-24	6.8900-02	5.8400-06
-.4	9.4500-01	3.3100-06	1.2200-06	6.5600-25	5.5300-02	4.5300-06
-.2	9.5600-01	2.7300-06	7.9900-07	3.5000-25	4.4300-02	3.5300-06
.0	9.6500-01	2.2400-06	5.1900-07	1.8400-25	3.5400-02	2.7600-06
.2	9.7200-01	1.8300-06	3.3600-07	9.6400-26	2.8300-02	2.1600-06
.4	9.7700-01	1.4800-06	2.1700-07	5.0000-26	2.2500-02	1.7000-06
.6	9.8200-01	1.2000-06	1.3900-07	2.5800-26	1.7900-02	1.3400-06
.8	9.8600-01	9.7200-07	8.9300-08	1.3200-26	1.4300-02	1.0600-06
1.0	9.8900-01	7.8500-07	5.7300-08	6.7200-27	1.1300-02	8.4200-07
1.2	9.9100-01	6.3500-07	3.6800-08	3.4000-27	8.9700-03	6.7100-07
1.4	9.9300-01	5.1500-07	2.3700-08	1.7100-27	7.0800-03	5.3800-07
1.6	9.9400-01	4.2000-07	1.5400-08	8.4900-28	5.5700-03	4.3500-07
1.8	9.9600-01	3.4700-07	1.0100-08	4.1700-28	4.3500-03	3.5700-07
2.0	9.9700-01	2.9100-07	6.8100-09	2.0100-28	3.3600-03	2.9800-07
2.2	9.9700-01	2.5200-07	4.7300-09	9.3900-29	2.5500-03	2.5700-07

T= 5800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0281+00	2.3603+01	2.5631+01	7.7605+01	-5.3659+00	2.0281+00
-6.8	2.0221+00	2.3422+01	2.5444+01	7.6492+01	-5.1672+00	2.0221+00
-6.6	2.0172+00	2.3276+01	2.5293+01	7.5416+01	-4.9682+00	2.0172+00
-6.4	2.0131+00	2.3155+01	2.5168+01	7.4367+01	-4.7691+00	2.0131+00
-6.2	2.0095+00	2.3052+01	2.5062+01	7.3338+01	-4.5699+00	2.0095+00
-6.0	2.0060+00	2.2960+01	2.4966+01	7.2321+01	-4.3706+00	2.0060+00
-5.8	2.0024+00	2.2869+01	2.4872+01	7.1307+01	-4.1714+00	2.0024+00
-5.6	1.9982+00	2.2771+01	2.4770+01	7.0288+01	-3.9723+00	1.9982+00
-5.4	1.9928+00	2.2653+01	2.4646+01	6.9251+01	-3.7735+00	1.9928+00
-5.2	1.9853+00	2.2496+01	2.4481+01	6.8178+01	-3.5752+00	1.9853+00
-5.0	1.9744+00	2.2276+01	2.4251+01	6.7046+01	-3.3775+00	1.9744+00
-4.8	1.9586+00	2.1962+01	2.3920+01	6.5826+01	-3.1810+00	1.9586+00
-4.6	1.9357+00	2.1513+01	2.3448+01	6.4479+01	-2.9861+00	1.9357+00
-4.4	1.9037+00	2.0885+01	2.2789+01	6.2968+01	-2.7934+00	1.9037+00
-4.2	1.8605+00	2.0043+01	2.1904+01	6.1259+01	-2.6033+00	1.8605+00
-4.0	1.8055+00	1.8972+01	2.0777+01	5.9342+01	-2.4164+00	1.8055+00
-3.8	1.7396+00	1.7688+01	1.9427+01	5.7241+01	-2.2325+00	1.7396+00
-3.6	1.6654+00	1.6244+01	1.7910+01	5.5014+01	-2.0514+00	1.6654+00
-3.4	1.5870+00	1.4718+01	1.6305+01	5.2739+01	-1.8724+00	1.5870+00
-3.2	1.5085+00	1.3192+01	1.4700+01	5.0499+01	-1.6944+00	1.5085+00
-3.0	1.4336+00	1.1734+01	1.3167+01	4.8364+01	-1.5166+00	1.4336+00
-2.8	1.3647+00	1.0394+01	1.1759+01	4.6380+01	-1.3379+00	1.3647+00
-2.6	1.3033+00	9.2004+00	1.0504+01	4.4573+01	-1.1579+00	1.3033+00
-2.4	1.2500+00	8.1630+00	9.4130+00	4.2948+01	-9.7607-01	1.2500+00
-2.2	1.2045+00	7.2784+00	8.4829+00	4.1498+01	-7.9217-01	1.2045+00
-2.0	1.1663+00	6.5355+00	7.7018+00	4.0209+01	-6.0617-01	1.1663+00
-1.8	1.1346+00	5.9188+00	7.0534+00	3.9063+01	-4.1814-01	1.1346+00
-1.6	1.1085+00	5.4118+00	6.5203+00	3.8040+01	-2.2823-01	1.1085+00
-1.4	1.0872+00	4.9978+00	6.0851+00	3.7120+01	-3.6646-02	1.0872+00
-1.2	1.0700+00	4.6618+00	5.7318+00	3.6288+01	1.5641-01	1.0699+00
-1.0	1.0561+00	4.3903+00	5.4464+00	3.5527+01	3.5073-01	1.0559+00
-.8	1.0449+00	4.1717+00	5.2167+00	3.4825+01	5.4611-01	1.0447+00
-.6	1.0360+00	3.9962+00	5.0323+00	3.4170+01	7.4240-01	1.0357+00
-.4	1.0290+00	3.8556+00	4.8847+00	3.3554+01	9.3945-01	1.0284+00
-.2	1.0236+00	3.7432+00	4.7668+00	3.2969+01	1.1371+00	1.0226+00
.0	1.0195+00	3.6534+00	4.6729+00	3.2409+01	1.3354+00	1.0180+00
.2	1.0166+00	3.5819+00	4.5984+00	3.1869+01	1.5342+00	1.0143+00
.4	1.0150+00	3.5248+00	4.5398+00	3.1344+01	1.7335+00	1.0114+00
.6	1.0147+00	3.4795+00	4.4942+00	3.0831+01	1.9334+00	1.0091+00
.8	1.0161+00	3.4436+00	4.4597+00	3.0328+01	2.1340+00	1.0072+00
1.0	1.0198+00	3.4152+00	4.4350+00	2.9831+01	2.3355+00	1.0057+00
1.2	1.0268+00	3.3931+00	4.4199+00	2.9337+01	2.5385+00	1.0045+00
1.4	1.0388+00	3.3762+00	4.4150+00	2.8845+01	2.7436+00	1.0036+00
1.6	1.0586+00	3.3638+00	4.4225+00	2.8350+01	2.9518+00	1.0028+00
1.8	1.0906+00	3.3558+00	4.4464+00	2.7848+01	3.1647+00	1.0022+00
2.0	1.1418+00	3.3524+00	4.4941+00	2.7331+01	3.3846+00	1.0017+00
2.2	1.2232+00	3.3544+00	4.5775+00	2.6790+01	3.6145+00	1.0013+00

T= 5900

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0300-04	3.1800-07	1.8000-02	1.3500-17	9.6400-01	1.8000-02
-6.8	1.6400-04	4.0300-07	1.4400-02	8.5800-18	9.7100-01	1.4400-02
-6.6	2.6300-04	5.1200-07	1.1500-02	5.4300-18	9.7700-01	1.1500-02
-6.4	4.1900-04	6.4800-07	9.1400-03	3.4300-18	9.8100-01	9.1400-03
-6.2	6.6800-04	8.1900-07	7.2800-03	2.1700-18	9.8500-01	7.2800-03
-6.0	1.0600-03	1.0300-06	5.8000-03	1.3700-18	9.8700-01	5.8000-03
-5.8	1.6900-03	1.3000-06	4.6100-03	8.6700-19	9.8900-01	4.6200-03
-5.6	2.6700-03	1.6400-06	3.6700-03	5.4800-19	9.9000-01	3.6700-03
-5.4	4.2200-03	2.0600-06	2.9200-03	3.4700-19	9.9000-01	2.9200-03
-5.2	6.6600-03	2.5900-06	2.3200-03	2.1900-19	9.8900-01	2.3200-03
-5.0	1.0400-02	3.2400-06	1.8400-03	1.3900-19	9.8600-01	1.8500-03
-4.8	1.6300-02	4.0300-06	1.4600-03	8.8100-20	9.8100-01	1.4700-03
-4.6	2.5200-02	4.9900-06	1.1600-03	5.6000-20	9.7300-01	1.1700-03
-4.4	3.8300-02	6.1100-06	9.2200-04	3.5700-20	9.6000-01	9.2900-04
-4.2	5.7400-02	7.3900-06	7.3100-04	2.2900-20	9.4100-01	7.3800-04
-4.0	8.3800-02	8.7800-06	5.7800-04	1.4700-20	9.1500-01	5.8700-04
-3.8	1.1900-01	1.0200-05	4.5600-04	9.5400-21	8.8000-01	4.6600-04
-3.6	1.6400-01	1.1600-05	3.5800-04	6.2000-21	8.3600-01	3.7000-04
-3.4	2.1700-01	1.2900-05	2.8000-04	4.0400-21	7.8200-01	2.9300-04
-3.2	2.7800-01	1.3900-05	2.1700-04	2.6300-21	7.2100-01	2.3100-04
-3.0	3.4500-01	1.4600-05	1.6700-04	1.7100-21	6.5400-01	1.8100-04
-2.8	4.1500-01	1.4900-05	1.2700-04	1.1100-21	5.8500-01	1.4100-04
-2.6	4.8500-01	1.4900-05	9.5000-05	7.0800-22	5.1400-01	1.1000-04
-2.4	5.5400-01	1.4500-05	7.0400-05	4.4800-22	4.4600-01	8.4900-05
-2.2	6.1800-01	1.3800-05	5.1500-05	2.8000-22	3.8200-01	6.5300-05
-2.0	6.7600-01	1.2900-05	3.7200-05	1.7300-22	3.2300-01	5.0100-05
-1.8	7.2900-01	1.1800-05	2.6500-05	1.0500-22	2.7100-01	3.8300-05
-1.6	7.7500-01	1.0700-05	1.8600-05	6.2400-23	2.2500-01	2.9300-05
-1.4	8.1500-01	9.4500-06	1.2900-05	3.6600-23	1.8500-01	2.2400-05
-1.2	8.4900-01	8.2600-06	8.8900-06	2.1100-23	1.5100-01	1.7100-05
-1.0	8.7700-01	7.1300-06	6.0400-06	1.2000-23	1.2300-01	1.3200-05
-.8	9.0000-01	6.0700-06	4.0600-06	6.6900-24	9.9800-02	1.0100-05
-.6	9.1900-01	5.1200-06	2.7100-06	3.6800-24	8.0500-02	7.8300-06
-.4	9.3500-01	4.2800-06	1.7900-06	2.0000-24	6.4700-02	6.0700-06
-.2	9.4800-01	3.5500-06	1.1700-06	1.0700-24	5.1900-02	4.7200-06
.0	9.5800-01	2.9200-06	7.6500-07	5.6800-25	4.1600-02	3.6800-06
.2	9.6700-01	2.3900-06	4.9600-07	2.9800-25	3.3200-02	2.8900-06
.4	9.7300-01	1.9500-06	3.2000-07	1.5500-25	2.6500-02	2.2700-06
.6	9.7900-01	1.5800-06	2.0600-07	8.0300-26	2.1100-02	1.7900-06
.8	9.8300-01	1.2800-06	1.3300-07	4.1200-26	1.6800-02	1.4100-06
1.0	9.8700-01	1.0300-06	8.5100-08	2.1000-26	1.3300-02	1.1200-06
1.2	9.8900-01	8.3800-07	5.4700-08	1.0700-26	1.0600-02	8.9200-07
1.4	9.9200-01	6.8000-07	3.5300-08	5.3700-27	8.3500-03	7.1500-07
1.6	9.9300-01	5.5600-07	2.2900-08	2.6800-27	6.5700-03	5.7900-07
1.8	9.9500-01	4.5900-07	1.5100-08	1.3200-27	5.1300-03	4.7400-07
2.0	9.9600-01	3.8600-07	1.0100-08	6.3500-28	3.9600-03	3.9600-07
2.2	9.9700-01	3.3400-07	7.0100-09	2.9700-28	3.0100-03	3.4100-07



T= 5900

LOG Ø	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0364+00	2.3523+01	2.5559+01	7.7928+01	-5.3567+00	2.0364+00
-6.8	2.0288+00	2.3296+01	2.5324+01	7.6765+01	-5.1583+00	2.0288+00
-6.6	2.0227+00	2.3113+01	2.5135+01	7.5649+01	-4.9596+00	2.0227+00
-6.4	2.0176+00	2.2964+01	2.4981+01	7.4570+01	-4.7607+00	2.0176+00
-6.2	2.0133+00	2.2841+01	2.4854+01	7.3519+01	-4.5616+00	2.0133+00
-6.0	2.0095+00	2.2735+01	2.4744+01	7.2487+01	-4.3625+00	2.0095+00
-5.8	2.0059+00	2.2639+01	2.4645+01	7.1467+01	-4.1632+00	2.0059+00
-5.6	2.0020+00	2.2544+01	2.4546+01	7.0449+01	-3.9641+00	2.0020+00
-5.4	1.9974+00	2.2440+01	2.4437+01	6.9423+01	-3.7651+00	1.9974+00
-5.2	1.9914+00	2.2311+01	2.4302+01	6.8376+01	-3.5664+00	1.9914+00
-5.0	1.9829+00	2.2139+01	2.4122+01	6.7289+01	-3.3682+00	1.9829+00
-4.8	1.9708+00	2.1899+01	2.3870+01	6.6138+01	-3.1709+00	1.9708+00
-4.6	1.9531+00	2.1555+01	2.3508+01	6.4890+01	-2.9748+00	1.9531+00
-4.4	1.9279+00	2.1067+01	2.2994+01	6.3508+01	-2.7805+00	1.9279+00
-4.2	1.8928+00	2.0392+01	2.2285+01	6.1954+01	-2.5884+00	1.8928+00
-4.0	1.8463+00	1.9500+01	2.1346+01	6.0200+01	-2.3992+00	1.8463+00
-3.8	1.7881+00	1.8383+01	2.0171+01	5.8246+01	-2.2132+00	1.7881+00
-3.6	1.7194+00	1.7069+01	1.8788+01	5.6124+01	-2.0302+00	1.7194+00
-3.4	1.6436+00	1.5618+01	1.7262+01	5.3898+01	-1.8497+00	1.6436+00
-3.2	1.5648+00	1.4109+01	1.5674+01	5.1650+01	-1.6711+00	1.5648+00
-3.0	1.4869+00	1.2620+01	1.4107+01	4.9459+01	-1.4933+00	1.4869+00
-2.8	1.4135+00	1.1215+01	1.2628+01	4.7386+01	-1.3153+00	1.4135+00
-2.6	1.3466+00	9.9359+00	1.1282+01	4.5472+01	-1.1363+00	1.3466+00
-2.4	1.2875+00	8.8051+00	1.0093+01	4.3735+01	-9.5581-01	1.2875+00
-2.2	1.2364+00	7.8279+00	9.0643+00	4.2177+01	-7.7340-01	1.2364+00
-2.0	1.1930+00	6.9985+00	8.1916+00	4.0788+01	-5.8890-01	1.1930+00
-1.8	1.1567+00	6.3045+00	7.4612+00	3.9553+01	-4.0232-01	1.1567+00
-1.6	1.1267+00	5.7301+00	6.8568+00	3.8453+01	-2.1374-01	1.1267+00
-1.4	1.1021+00	5.2589+00	6.3609+00	3.7469+01	-2.3335-02	1.1020+00
-1.2	1.0820+00	4.8748+00	5.9568+00	3.6582+01	1.6869-01	1.0819+00
-1.0	1.0658+00	4.5635+00	5.6293+00	3.5777+01	3.6213-01	1.0657+00
-.8	1.0527+00	4.3123+00	5.3650+00	3.5038+01	5.5678-01	1.0525+00
-.6	1.0423+00	4.1101+00	5.1525+00	3.4353+01	7.5245-01	1.0419+00
-.4	1.0340+00	3.9480+00	4.9820+00	3.3713+01	9.4899-01	1.0335+00
-.2	1.0276+00	3.8181+00	4.8457+00	3.3109+01	1.1463+00	1.0267+00
.0	1.0227+00	3.7143+00	4.7370+00	3.2533+01	1.3442+00	1.0212+00
.2	1.0191+00	3.6315+00	4.6507+00	3.1980+01	1.5427+00	1.0169+00
.4	1.0170+00	3.5655+00	4.5825+00	3.1445+01	1.7418+00	1.0134+00
.6	1.0163+00	3.5130+00	4.5293+00	3.0924+01	1.9415+00	1.0107+00
.8	1.0174+00	3.4713+00	4.4886+00	3.0415+01	2.1419+00	1.0085+00
1.0	1.0208+00	3.4383+00	4.4591+00	2.9912+01	2.3434+00	1.0067+00
1.2	1.0276+00	3.4125+00	4.4401+00	2.9415+01	2.5463+00	1.0053+00
1.4	1.0394+00	3.3927+00	4.4321+00	2.8920+01	2.7512+00	1.0042+00
1.6	1.0590+00	3.3780+00	4.4370+00	2.8422+01	2.9594+00	1.0033+00
1.8	1.0909+00	3.3681+00	4.4590+00	2.7918+01	3.1722+00	1.0026+00
2.0	1.1418+00	3.3632+00	4.5050+00	2.7400+01	3.3921+00	1.0020+00
2.2	1.2230+00	3.3640+00	4.5870+00	2.6857+01	3.6219+00	1.0015+00

T= 6000

LOG D	N2	N2+	N+	N++	N	E
-7.0	7.3400-05	3.0600-07	2.2900-02	3.6400-17	9.5400-01	2.2900-02
-6.8	1.1800-04	3.9000-07	1.8400-02	2.3100-17	9.6300-01	1.8400-02
-6.6	1.8900-04	4.9500-07	1.4700-02	1.4600-17	9.7000-01	1.4700-02
-6.4	3.0300-04	6.2800-07	1.1700-02	9.2600-18	9.7600-01	1.1700-02
-6.2	4.8300-04	7.9600-07	9.3300-03	5.8600-18	9.8100-01	9.3300-03
-6.0	7.6900-04	1.0100-06	7.4300-03	3.7000-18	9.8400-01	7.4300-03
-5.8	1.2200-03	1.2700-06	5.9200-03	2.3400-18	9.8700-01	5.9200-03
-5.6	1.9400-03	1.6000-06	4.7100-03	1.4800-18	9.8900-01	4.7100-03
-5.4	3.0700-03	2.0200-06	3.7400-03	9.3600-19	9.8900-01	3.7500-03
-5.2	4.8600-03	2.5300-06	2.9800-03	5.9200-19	9.8900-01	2.9800-03
-5.0	7.6500-03	3.1800-06	2.3700-03	3.7500-19	9.8800-01	2.3700-03
-4.8	1.2000-02	3.9700-06	1.8800-03	2.3700-19	9.8400-01	1.8800-03
-4.6	1.8600-02	4.9300-06	1.4900-03	1.5100-19	9.7800-01	1.5000-03
-4.4	2.8700-02	6.0800-06	1.1900-03	9.5900-20	9.6900-01	1.1900-03
-4.2	4.3500-02	7.4200-06	9.4000-04	6.1200-20	9.5500-01	9.4800-04
-4.0	6.4600-02	8.9300-06	7.4500-04	3.9300-20	9.3400-01	7.5400-04
-3.8	9.3600-02	1.0600-05	5.8900-04	2.5300-20	9.0500-01	5.9900-04
-3.6	1.3200-01	1.2200-05	4.6400-04	1.6400-20	8.6700-01	4.7600-04
-3.4	1.7900-01	1.3800-05	3.6400-04	1.0700-20	8.2000-01	3.7800-04
-3.2	2.3500-01	1.5100-05	2.8300-04	6.9500-21	7.6400-01	2.9900-04
-3.0	2.9800-01	1.6200-05	2.1900-04	4.5300-21	7.0100-01	2.3500-04
-2.8	3.6700-01	1.6800-05	1.6800-04	2.9300-21	6.3300-01	1.8400-04
-2.6	4.3700-01	1.7000-05	1.2700-04	1.8900-21	5.6300-01	1.4400-04
-2.4	5.0700-01	1.6900-05	9.4700-05	1.2000-21	4.9300-01	1.1200-04
-2.2	5.7400-01	1.6300-05	6.9800-05	7.5800-22	4.2600-01	8.6100-05
-2.0	6.3600-01	1.5400-05	5.0800-05	4.7100-22	3.6300-01	6.6300-05
-1.8	6.9300-01	1.4300-05	3.6500-05	2.8800-22	3.0700-01	5.0800-05
-1.6	7.4400-01	1.3000-05	2.5900-05	1.7300-22	2.5600-01	3.8900-05
-1.4	7.8800-01	1.1700-05	1.8100-05	1.0300-22	2.1200-01	2.9800-05
-1.2	8.2600-01	1.0300-05	1.2500-05	5.9700-23	1.7400-01	2.2800-05
-1.0	8.5800-01	8.9500-06	8.5600-06	3.4200-23	1.4200-01	1.7500-05
-.8	8.8400-01	7.6800-06	5.7900-06	1.9300-23	1.1500-01	1.3500-05
-.6	9.0700-01	6.5200-06	3.8800-06	1.0700-23	9.3400-02	1.0400-05
-.4	9.2500-01	5.4800-06	2.5700-06	5.8400-24	7.5300-02	8.0500-06
-.2	9.3900-01	4.5600-06	1.6900-06	3.1500-24	6.0500-02	6.2500-06
.0	9.5100-01	3.7700-06	1.1100-06	1.6800-24	4.8500-02	4.8800-06
.2	9.6100-01	3.0900-06	7.2100-07	8.8700-25	3.8800-02	3.8100-06
.4	9.6900-01	2.5300-06	4.6700-07	4.6400-25	3.1000-02	2.9900-06
.6	9.7500-01	2.0600-06	3.0100-07	2.4100-25	2.4700-02	2.3600-06
.8	9.8000-01	1.6700-06	1.9400-07	1.2400-25	1.9700-02	1.8600-06
1.0	9.8400-01	1.3500-06	1.2500-07	6.3400-26	1.5600-02	1.4800-06
1.2	9.8800-01	1.1000-06	8.0300-08	3.2200-26	1.2400-02	1.1800-06
1.4	9.9000-01	8.9000-07	5.1800-08	1.6300-26	9.7800-03	9.4200-07
1.6	9.9200-01	7.2800-07	3.3700-08	8.1200-27	7.7000-03	7.6200-07
1.8	9.9400-01	6.0200-07	2.2100-08	4.0000-27	6.0100-03	6.2400-07
2.0	9.9500-01	5.0600-07	1.4800-08	1.9300-27	4.6500-03	5.2100-07
2.2	9.9600-01	4.3900-07	1.0200-08	9.0600-28	3.5300-03	4.4900-07

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T= 6000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0468+00	2.3505+01	2.5552+01	7.8307+01	-5.3472+00	2.0468+00
-6.8	2.0371+00	2.3221+01	2.5258+01	7.7082+01	-5.1492+00	2.0371+00
-6.6	2.0294+00	2.2992+01	2.5022+01	7.5917+01	-4.9509+00	2.0294+00
-6.4	2.0231+00	2.2808+01	2.4831+01	7.4800+01	-4.7522+00	2.0231+00
-6.2	2.0178+00	2.2658+01	2.4676+01	7.3719+01	-4.5534+00	2.0178+00
-6.0	2.0134+00	2.2533+01	2.4547+01	7.2666+01	-4.3543+00	2.0134+00
-5.8	2.0094+00	2.2425+01	2.4435+01	7.1632+01	-4.1552+00	2.0094+00
-5.6	2.0055+00	2.2326+01	2.4331+01	7.0608+01	-3.9560+00	2.0055+00
-5.4	2.0013+00	2.2226+01	2.4227+01	6.9586+01	-3.7569+00	2.0013+00
-5.2	1.9962+00	2.2113+01	2.4110+01	6.8553+01	-3.5580+00	1.9962+00
-5.0	1.9895+00	2.1973+01	2.3963+01	6.7494+01	-3.3595+00	1.9895+00
-4.8	1.9800+00	2.1784+01	2.3764+01	6.6391+01	-3.1616+00	1.9800+00
-4.6	1.9663+00	2.1518+01	2.3484+01	6.5216+01	-2.9646+00	1.9663+00
-4.4	1.9465+00	2.1139+01	2.3085+01	6.3936+01	-2.7690+00	1.9465+00
-4.2	1.9184+00	2.0605+01	2.2523+01	6.2512+01	-2.5753+00	1.9184+00
-4.0	1.8799+00	1.9877+01	2.1757+01	6.0909+01	-2.3841+00	1.8799+00
-3.8	1.8297+00	1.8930+01	2.0759+01	5.9107+01	-2.1959+00	1.8297+00
-3.6	1.7680+00	1.7766+01	1.9534+01	5.7114+01	-2.0108+00	1.7680+00
-3.4	1.6968+00	1.6424+01	1.8121+01	5.4974+01	-1.8286+00	1.6968+00
-3.2	1.6195+00	1.4970+01	1.6590+01	5.2756+01	-1.6489+00	1.6195+00
-3.0	1.5406+00	1.3484+01	1.5024+01	5.0542+01	-1.4706+00	1.5406+00
-2.8	1.4638+00	1.2038+01	1.3502+01	4.8405+01	-1.2928+00	1.4638+00
-2.6	1.3921+00	1.0690+01	1.2083+01	4.6400+01	-1.1146+00	1.3921+00
-2.4	1.3276+00	9.4755+00	1.0803+01	4.4559+01	-9.3519-01	1.3276+00
-2.2	1.2709+00	8.4095+00	9.6804+00	4.2895+01	-7.5413-01	1.2709+00
-2.0	1.2222+00	7.4938+00	8.7161+00	4.1406+01	-5.7109-01	1.2222+00
-1.8	1.1811+00	6.7204+00	7.9015+00	4.0079+01	-3.8595-01	1.1811+00
-1.6	1.1469+00	6.0755+00	7.2224+00	3.8898+01	-1.9873-01	1.1468+00
-1.4	1.1186+00	5.5434+00	6.6620+00	3.7845+01	-9.5695-03	1.1185+00
-1.2	1.0955+00	5.1078+00	6.2033+00	3.6899+01	1.8136-01	1.0954+00
-1.0	1.0767+00	4.7534+00	5.8301+00	3.6045+01	3.7385-01	1.0766+00
-.8	1.0615+00	4.4666+00	5.5281+00	3.5266+01	5.6769-01	1.0613+00
-.6	1.0494+00	4.2354+00	5.2847+00	3.4549+01	7.6268-01	1.0490+00
-.4	1.0397+00	4.0495+00	5.0892+00	3.3882+01	9.5866-01	1.0391+00
-.2	1.0321+00	3.9005+00	4.9326+00	3.3256+01	1.1555+00	1.0312+00
.0	1.0263+00	3.7812+00	4.8075+00	3.2663+01	1.3530+00	1.0249+00
.2	1.0220+00	3.6859+00	4.7080+00	3.2096+01	1.5512+00	1.0198+00
.4	1.0193+00	3.6100+00	4.6293+00	3.1550+01	1.7501+00	1.0157+00
.6	1.0181+00	3.5494+00	4.5676+00	3.1020+01	1.9496+00	1.0125+00
.8	1.0188+00	3.5014+00	4.5202+00	3.0503+01	2.1498+00	1.0099+00
1.0	1.0219+00	3.4633+00	4.4852+00	2.9996+01	2.3512+00	1.0079+00
1.2	1.0285+00	3.4334+00	4.4619+00	2.9494+01	2.5539+00	1.0062+00
1.4	1.0401+00	3.4103+00	4.4504+00	2.8995+01	2.7588+00	1.0049+00
1.6	1.0595+00	3.3930+00	4.4526+00	2.8494+01	2.9669+00	1.0039+00
1.8	1.0912+00	3.3811+00	4.4723+00	2.7988+01	3.1796+00	1.0030+00
2.0	1.1419+00	3.3745+00	4.5165+00	2.7468+01	3.3994+00	1.0023+00
2.2	1.2229+00	3.3740+00	4.5969+00	2.6924+01	3.6291+00	1.0018+00

T= 6100

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.2900-05	2.9400-07	2.9000-02	9.4800-17	9.4200-01	2.9000-02
-6.8	8.5400-05	3.7600-07	2.3200-02	6.0200-17	9.5300-01	2.3200-02
-6.6	1.3700-04	4.7900-07	1.8600-02	3.8200-17	9.6300-01	1.8600-02
-6.4	2.2000-04	6.0900-07	1.4800-02	2.4200-17	9.7000-01	1.4800-02
-6.2	3.5200-04	7.7300-07	1.1800-02	1.5300-17	9.7600-01	1.1800-02
-6.0	5.6200-04	9.7800-07	9.4400-03	9.6800-18	9.8100-01	9.4400-03
-5.8	8.9400-04	1.2400-06	7.5200-03	6.1200-18	9.8400-01	7.5200-03
-5.6	1.4200-03	1.5600-06	5.9900-03	3.8700-18	9.8700-01	5.9900-03
-5.4	2.2600-03	1.9700-06	4.7600-03	2.4500-18	9.8800-01	4.7700-03
-5.2	3.5700-03	2.4800-06	3.7900-03	1.5500-18	9.8900-01	3.7900-03
-5.0	5.6400-03	3.1100-06	3.0100-03	9.7900-19	9.8800-01	3.0200-03
-4.8	8.8700-03	3.9000-06	2.4000-03	6.2000-19	9.8600-01	2.4000-03
-4.6	1.3900-02	4.8600-06	1.9000-03	3.9300-19	9.8200-01	1.9100-03
-4.4	2.1500-02	6.0300-06	1.5100-03	2.5000-19	9.7500-01	1.5200-03
-4.2	3.2900-02	7.4100-06	1.2000-03	1.5900-19	9.6500-01	1.2100-03
-4.0	4.9700-02	9.0100-06	9.5100-04	1.0200-19	9.4800-01	9.6000-04
-3.8	7.3200-02	1.0800-05	7.5300-04	6.5300-20	9.2500-01	7.6400-04
-3.6	1.0500-01	1.2700-05	5.9400-04	4.2200-20	8.9400-01	6.0700-04
-3.4	1.4600-01	1.4500-05	4.6800-04	2.7400-20	8.5300-01	4.8200-04
-3.2	1.9700-01	1.6200-05	3.6600-04	1.7800-20	8.0300-01	3.8200-04
-3.0	2.5500-01	1.7700-05	2.8400-04	1.1600-20	7.4400-01	3.0200-04
-2.8	3.2000-01	1.8700-05	2.1900-04	7.5300-21	6.7900-01	2.3800-04
-2.6	3.9000-01	1.9300-05	1.6700-04	4.8700-21	6.1000-01	1.8600-04
-2.4	4.6000-01	1.9400-05	1.2600-04	3.1200-21	5.4000-01	1.4500-04
-2.2	5.2900-01	1.9000-05	9.3400-05	1.9800-21	4.7100-01	1.1200-04
-2.0	5.9500-01	1.8200-05	6.8500-05	1.2400-21	4.0500-01	8.6700-05
-1.8	6.5600-01	1.7100-05	4.9600-05	7.6400-22	3.4400-01	6.6700-05
-1.6	7.1100-01	1.5800-05	3.5400-05	4.6400-22	2.8900-01	5.1200-05
-1.4	7.5900-01	1.4300-05	2.5000-05	2.7700-22	2.4100-01	3.9200-05
-1.2	8.0100-01	1.2700-05	1.7400-05	1.6300-22	1.9900-01	3.0100-05
-1.0	8.3700-01	1.1100-05	1.2000-05	9.4000-23	1.6300-01	2.3100-05
-.8	8.6700-01	9.6100-06	8.1400-06	5.3400-23	1.3300-01	1.7700-05
-.6	8.9200-01	8.2100-06	5.4800-06	2.9800-23	1.0800-01	1.3700-05
-.4	9.1300-01	6.9300-06	3.6500-06	1.6400-23	8.7000-02	1.0600-05
-.2	9.3000-01	5.8000-06	2.4200-06	8.9200-24	7.0100-02	8.2200-06
.0	9.4400-01	4.8100-06	1.5900-06	4.7900-24	5.6200-02	6.4000-06
.2	9.5500-01	3.9700-06	1.0400-06	2.5400-24	4.5100-02	5.0000-06
.4	9.6400-01	3.2500-06	6.7200-07	1.3300-24	3.6000-02	3.9200-06
.6	9.7100-01	2.6500-06	4.3500-07	6.9500-25	2.8700-02	3.0800-06
.8	9.7700-01	2.1500-06	2.8000-07	3.5900-25	2.2900-02	2.4300-06
1.0	9.8200-01	1.7500-06	1.8000-07	1.8400-25	1.8200-02	1.9300-06
1.2	9.8600-01	1.4200-06	1.1600-07	9.3900-26	1.4400-02	1.5400-06
1.4	9.8900-01	1.1600-06	7.5100-08	4.7400-26	1.1400-02	1.2300-06
1.6	9.9100-01	9.4600-07	4.8800-08	2.3700-26	8.9700-03	9.9400-07
1.8	9.9300-01	7.8200-07	3.2100-08	1.1700-26	7.0100-03	8.1400-07
2.0	9.9500-01	6.5900-07	2.1500-08	5.6700-27	5.4200-03	6.8000-07
2.2	9.9600-01	5.7200-07	1.4800-08	2.6700-27	4.1200-03	5.8600-07

T= 6100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0595+00	2.3559+01	2.5618+01	7.8749+01	-5.3373+00	2.0595+00
-6.8	2.0473+00	2.3205+01	2.5252+01	7.7450+01	-5.1399+00	2.0473+00
-6.6	2.0376+00	2.2921+01	2.4959+01	7.6225+01	-4.9420+00	2.0376+00
-6.4	2.0297+00	2.2693+01	2.4723+01	7.5061+01	-4.7436+00	2.0297+00
-6.2	2.0232+00	2.2509+01	2.4533+01	7.3944+01	-4.5450+00	2.0232+00
-6.0	2.0179+00	2.2359+01	2.4377+01	7.2863+01	-4.3462+00	2.0179+00
-5.8	2.0133+00	2.2233+01	2.4246+01	7.1809+01	-4.1472+00	2.0133+00
-5.6	2.0092+00	2.2123+01	2.4132+01	7.0772+01	-3.9481+00	2.0092+00
-5.4	2.0050+00	2.2020+01	2.4025+01	6.9745+01	-3.7489+00	2.0050+00
-5.2	2.0004+00	2.1914+01	2.3914+01	6.8717+01	-3.5499+00	2.0004+00
-5.0	1.9948+00	2.1792+01	2.3787+01	6.7675+01	-3.3512+00	1.9948+00
-4.8	1.9871+00	2.1638+01	2.3625+01	6.6604+01	-3.1528+00	1.9871+00
-4.6	1.9764+00	2.1428+01	2.3404+01	6.5481+01	-2.9552+00	1.9764+00
-4.4	1.9608+00	2.1132+01	2.3093+01	6.4278+01	-2.7586+00	1.9608+00
-4.2	1.9385+00	2.0712+01	2.2650+01	6.2960+01	-2.5636+00	1.9385+00
-4.0	1.9071+00	2.0126+01	2.2033+01	6.1489+01	-2.3707+00	1.9071+00
-3.8	1.8648+00	1.9339+01	2.1204+01	5.9833+01	-2.1804+00	1.8648+00
-3.6	1.8107+00	1.8334+01	2.0145+01	5.7981+01	-1.9932+00	1.8107+00
-3.4	1.7455+00	1.7125+01	1.8870+01	5.5952+01	-1.8092+00	1.7455+00
-3.2	1.6718+00	1.5759+01	1.7431+01	5.3799+01	-1.6279+00	1.6718+00
-3.0	1.5935+00	1.4308+01	1.5902+01	5.1597+01	-1.4487+00	1.5935+00
-2.8	1.5149+00	1.2851+01	1.4366+01	4.9424+01	-1.2707+00	1.5149+00
-2.6	1.4395+00	1.1455+01	1.2895+01	4.7348+01	-1.0929+00	1.4395+00
-2.4	1.3700+00	1.0169+01	1.1539+01	4.5415+01	-9.1434-01	1.3700+00
-2.2	1.3080+00	9.0206+00	1.0329+01	4.3650+01	-7.3446-01	1.3080+00
-2.0	1.2540+00	8.0207+00	9.2747+00	4.2061+01	-5.5277-01	1.2540+00
-1.8	1.2079+00	7.1669+00	8.3748+00	4.0641+01	-3.6904-01	1.2079+00
-1.6	1.1691+00	6.4491+00	7.6182+00	3.9376+01	-1.8320-01	1.1691+00
-1.4	1.1370+00	5.8528+00	6.9898+00	3.8249+01	4.6746-03	1.1369+00
-1.2	1.1105+00	5.3622+00	6.4727+00	3.7241+01	1.9444-01	1.1104+00
-1.0	1.0889+00	4.9614+00	6.0503+00	3.6334+01	3.8591-01	1.0887+00
-.8	1.0714+00	4.6360+00	5.7074+00	3.5511+01	5.7888-01	1.0712+00
-.6	1.0573+00	4.3730+00	5.4303+00	3.4758+01	7.7314-01	1.0569+00
-.4	1.0461+00	4.1611+00	5.2072+00	3.4062+01	9.6850-01	1.0455+00
-.2	1.0372+00	3.9910+00	5.0283+00	3.3412+01	1.1648+00	1.0363+00
.0	1.0304+00	3.8547+00	4.8851+00	3.2800+01	1.3619+00	1.0289+00
.2	1.0253+00	3.7457+00	4.7710+00	3.2218+01	1.5598+00	1.0231+00
.4	1.0219+00	3.6587+00	4.6806+00	3.1659+01	1.7583+00	1.0183+00
.6	1.0202+00	3.5894+00	4.6096+00	3.1120+01	1.9576+00	1.0146+00
.8	1.0205+00	3.5342+00	4.5547+00	3.0595+01	2.1577+00	1.0116+00
1.0	1.0232+00	3.4905+00	4.5137+00	3.0081+01	2.3589+00	1.0092+00
1.2	1.0295+00	3.4561+00	4.4856+00	2.9574+01	2.5615+00	1.0073+00
1.4	1.0409+00	3.4294+00	4.4702+00	2.9070+01	2.7663+00	1.0057+00
1.6	1.0601+00	3.4092+00	4.4693+00	2.8567+01	2.9743+00	1.0045+00
1.8	1.0915+00	3.3949+00	4.4864+00	2.8058+01	3.1870+00	1.0035+00
2.0	1.1421+00	3.3865+00	4.5286+00	2.7536+01	3.4066+00	1.0027+00
2.2	1.2228+00	3.3845+00	4.6073+00	2.6991+01	3.6363+00	1.0021+00

T= 6200

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.8300-05	2.8200-07	3.6200-02	2.3900-16	9.2800-01	3.6200-02
-6.8	6.2200-05	3.6200-07	2.9100-02	1.5200-16	9.4200-01	2.9100-02
-6.6	1.0000-04	4.6300-07	2.3300-02	9.6400-17	9.5300-01	2.3300-02
-6.4	1.6100-04	5.9000-07	1.8700-02	6.1100-17	9.6300-01	1.8700-02
-6.2	2.5900-04	7.5000-07	1.4900-02	3.8700-17	9.7000-01	1.4900-02
-6.0	4.1400-04	9.5100-07	1.1900-02	2.4500-17	9.7600-01	1.1900-02
-5.8	6.6000-04	1.2000-06	9.4800-03	1.5500-17	9.8000-01	9.4800-03
-5.6	1.0500-03	1.5200-06	7.5500-03	9.8100-18	9.8400-01	7.5500-03
-5.4	1.6700-03	1.9200-06	6.0100-03	6.2000-18	9.8600-01	6.0200-03
-5.2	2.6500-03	2.4200-06	4.7900-03	3.9200-18	9.8800-01	4.7900-03
-5.0	4.1900-03	3.0500-06	3.8100-03	2.4800-18	9.8800-01	3.8100-03
-4.8	6.6100-03	3.8200-06	3.0300-03	1.5700-18	9.8700-01	3.0300-03
-4.6	1.0400-02	4.7800-06	2.4100-03	9.9500-19	9.8500-01	2.4100-03
-4.4	1.6200-02	5.9600-06	1.9100-03	6.3100-19	9.8000-01	1.9200-03
-4.2	2.5000-02	7.3700-06	1.5200-03	4.0100-19	9.7200-01	1.5200-03
-4.0	3.8100-02	9.0300-06	1.2000-03	2.5600-19	9.5900-01	1.2100-03
-3.8	5.7100-02	1.0900-05	9.5400-04	1.6400-19	9.4100-01	9.6500-04
-3.6	8.3400-02	1.3000-05	7.5500-04	1.0500-19	9.1500-01	7.6800-04
-3.4	1.1800-01	1.5100-05	5.9500-04	6.8200-20	8.8000-01	6.1000-04
-3.2	1.6300-01	1.7200-05	4.6700-04	4.4300-20	8.3600-01	4.8400-04
-3.0	2.1600-01	1.9000-05	3.6500-04	2.8800-20	7.8300-01	3.8400-04
-2.8	2.7800-01	2.0500-05	2.8200-04	1.8700-20	7.2200-01	3.0300-04
-2.6	3.4400-01	2.1500-05	2.1700-04	1.2100-20	6.5500-01	2.3800-04
-2.4	4.1400-01	2.1900-05	1.6400-04	7.8200-21	5.8500-01	1.8600-04
-2.2	4.8400-01	2.1800-05	1.2300-04	4.9900-21	5.1500-01	1.4500-04
-2.0	5.5300-01	2.1200-05	9.1000-05	3.1500-21	4.4700-01	1.1200-04
-1.8	6.1700-01	2.0200-05	6.6400-05	1.9600-21	3.8300-01	8.6600-05
-1.6	6.7600-01	1.8800-05	4.7800-05	1.2000-21	3.2400-01	6.6600-05
-1.4	7.2800-01	1.7200-05	3.4000-05	7.2200-22	2.7100-01	5.1200-05
-1.2	7.7500-01	1.5400-05	2.3800-05	4.2800-22	2.2500-01	3.9300-05
-1.0	8.1400-01	1.3700-05	1.6500-05	2.4900-22	1.8500-01	3.0100-05
-.8	8.4800-01	1.1900-05	1.1300-05	1.4300-22	1.5200-01	2.3200-05
-.6	8.7700-01	1.0200-05	7.6300-06	8.0400-23	1.2300-01	1.7900-05
-.4	9.0000-01	8.6900-06	5.1200-06	4.4600-23	1.0000-01	1.3800-05
-.2	9.1900-01	7.3100-06	3.4000-06	2.4400-23	8.0700-02	1.0700-05
.0	9.3500-01	6.0900-06	2.2400-06	1.3200-23	6.4900-02	8.3300-06
.2	9.4800-01	5.0400-06	1.4700-06	7.0200-24	5.2000-02	6.5000-06
.4	9.5800-01	4.1400-06	9.5500-07	3.7000-24	4.1600-02	5.0900-06
.6	9.6700-01	3.3900-06	6.1900-07	1.9400-24	3.3200-02	4.0000-06
.8	9.7300-01	2.7600-06	4.0000-07	1.0000-24	2.6500-02	3.1600-06
1.0	9.7900-01	2.2400-06	2.5800-07	5.1700-25	2.1100-02	2.5000-06
1.2	9.8300-01	1.8200-06	1.6600-07	2.6400-25	1.6700-02	1.9900-06
1.4	9.8700-01	1.4900-06	1.0800-07	1.3400-25	1.3200-02	1.5900-06
1.6	9.9000-01	1.2200-06	6.9900-08	6.7100-26	1.0400-02	1.2900-06
1.8	9.9200-01	1.0100-06	4.5900-08	3.3200-26	8.1300-03	1.0500-06
2.0	9.9400-01	8.5000-07	3.0700-08	1.6100-26	6.2900-03	8.8100-07
2.2	9.9500-01	7.3800-07	2.1100-08	7.5800-27	4.7800-03	7.5900-07

T= 6200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0750+00	2.3692+01	2.5767+01	7.9266+01	-5.3270+00	2.0750+00
-6.8	2.0598+00	2.3255+01	2.5315+01	7.7877+01	-5.1302+00	2.0598+00
-6.6	2.0475+00	2.2905+01	2.4952+01	7.6582+01	-4.9328+00	2.0475+00
-6.4	2.0377+00	2.2624+01	2.4662+01	7.5360+01	-4.7349+00	2.0377+00
-6.2	2.0297+00	2.2398+01	2.4428+01	7.4198+01	-4.5366+00	2.0297+00
-6.0	2.0232+00	2.2215+01	2.4239+01	7.3082+01	-4.3380+00	2.0232+00
-5.8	2.0178+00	2.2065+01	2.4083+01	7.2001+01	-4.1391+00	2.0178+00
-5.6	2.0131+00	2.1939+01	2.3952+01	7.0946+01	-3.9401+00	2.0131+00
-5.4	2.0087+00	2.1826+01	2.3835+01	6.9908+01	-3.7411+00	2.0087+00
-5.2	2.0043+00	2.1720+01	2.3724+01	6.8877+01	-3.5420+00	2.0043+00
-5.0	1.9992+00	2.1607+01	2.3606+01	6.7843+01	-3.3431+00	1.9992+00
-4.8	1.9929+00	2.1474+01	2.3467+01	6.6791+01	-3.1445+00	1.9929+00
-4.6	1.9842+00	2.1303+01	2.3287+01	6.5704+01	-2.9464+00	1.9842+00
-4.4	1.9719+00	2.1068+01	2.3040+01	6.4558+01	-2.7491+00	1.9719+00
-4.2	1.9541+00	2.0736+01	2.2691+01	6.3322+01	-2.5531+00	1.9541+00
-4.0	1.9288+00	2.0269+01	2.2198+01	6.1960+01	-2.3587+00	1.9288+00
-3.8	1.8938+00	1.9625+01	2.1519+01	6.0435+01	-2.1667+00	1.8938+00
-3.6	1.8473+00	1.8775+01	2.0622+01	5.8723+01	-1.9775+00	1.8473+00
-3.4	1.7891+00	1.7710+01	1.9499+01	5.6821+01	-1.7914+00	1.7891+00
-3.2	1.7205+00	1.6458+01	1.8179+01	5.4761+01	-1.6084+00	1.7205+00
-3.0	1.6447+00	1.5075+01	1.6720+01	5.2603+01	-1.4279+00	1.6447+00
-2.8	1.5658+00	1.3636+01	1.5202+01	5.0424+01	-1.2493+00	1.5658+00
-2.6	1.4879+00	1.2216+01	1.3704+01	4.8301+01	-1.0714+00	1.4879+00
-2.4	1.4144+00	1.0875+01	1.2290+01	4.6292+01	-0.8935-01	1.4143+00
-2.2	1.3474+00	9.6543+00	1.1002+01	4.4435+01	-7.1452-01	1.3474+00
-2.0	1.2882+00	8.5747+00	9.8628+00	4.2749+01	-5.3404-01	1.2881+00
-1.8	1.2370+00	7.6415+00	8.8785+00	4.1235+01	-3.5165-01	1.2367+00
-1.6	1.1935+00	6.8494+00	8.0429+00	3.9884+01	-1.6718-01	1.1935+00
-1.4	1.1572+00	6.1865+00	7.3437+00	3.8680+01	1.9385-02	1.1571+00
-1.2	1.1271+00	5.6378+00	6.7649+00	3.7605+01	2.0795-01	1.1270+00
-1.0	1.1024+00	5.1876+00	6.2900+00	3.6642+01	3.9834-01	1.1023+00
-.8	1.0824+00	4.8207+00	5.9030+00	3.5772+01	5.9037-01	1.0821+00
-.6	1.0662+00	4.5232+00	5.5894+00	3.4980+01	7.8383-01	1.0658+00
-.4	1.0532+00	4.2832+00	5.3364+00	3.4252+01	9.7851-01	1.0526+00
-.2	1.0430+00	4.0900+00	5.1330+00	3.3576+01	1.1743+00	1.0420+00
.0	1.0350+00	3.9350+00	4.9700+00	3.2943+01	1.3709+00	1.0335+00
.2	1.0290+00	3.8110+00	4.8399+00	3.2344+01	1.5684+00	1.0267+00
.4	1.0248+00	3.7118+00	4.7366+00	3.1772+01	1.7666+00	1.0213+00
.6	1.0225+00	3.6327+00	4.6553+00	3.1221+01	1.9657+00	1.0169+00
.8	1.0223+00	3.5698+00	4.5921+00	3.0688+01	2.1656+00	1.0134+00
1.0	1.0247+00	3.5198+00	4.5445+00	3.0167+01	2.3665+00	1.0107+00
1.2	1.0306+00	3.4804+00	4.5110+00	2.9654+01	2.5691+00	1.0084+00
1.4	1.0417+00	3.4496+00	4.4914+00	2.9146+01	2.7738+00	1.0067+00
1.6	1.0608+00	3.4263+00	4.4870+00	2.8639+01	2.9816+00	1.0052+00
1.8	1.0920+00	3.4094+00	4.5014+00	2.8127+01	3.1942+00	1.0041+00
2.0	1.1423+00	3.3990+00	4.5413+00	2.7603+01	3.4138+00	1.0032+00
2.2	1.2228+00	3.3954+00	4.6181+00	2.7057+01	3.6433+00	1.0024+00

T= 6300

LDG D	N2	N2+	N+	N++	N	E
-7.0	2.7900-05	2.7000-07	4.4800-02	5.8400-16	9.1000-01	4.4800-02
-6.8	4.5500-05	3.4800-07	3.6100-02	3.7200-16	9.2800-01	3.6100-02
-6.6	7.3800-05	4.4700-07	2.9000-02	2.3600-16	9.4200-01	2.9000-02
-6.4	1.1900-04	5.7100-07	2.3200-02	1.5000-16	9.5300-01	2.3200-02
-6.2	1.9100-04	7.2800-07	1.8600-02	9.5200-17	9.6300-01	1.8600-02
-6.0	3.0700-04	9.2500-07	1.4900-02	6.0300-17	9.7000-01	1.4900-02
-5.8	4.9100-04	1.1700-06	1.1900-02	3.8200-17	9.7600-01	1.1900-02
-5.6	7.8300-04	1.4800-06	9.4500-03	2.4100-17	9.8000-01	9.4600-03
-5.4	1.2500-03	1.8800-06	7.5300-03	1.5300-17	9.8400-01	7.5300-03
-5.2	1.9800-03	2.3700-06	6.0000-03	9.6600-18	9.8600-01	6.0000-03
-5.0	3.1400-03	2.9800-06	4.7700-03	6.1100-18	9.8700-01	4.7800-03
-4.8	4.9600-03	3.7500-06	3.8000-03	3.8700-18	9.8700-01	3.8000-03
-4.6	7.8200-03	4.7000-06	3.0200-03	2.4500-18	9.8600-01	3.0200-03
-4.4	1.2200-02	5.8800-06	2.4000-03	1.5500-18	9.8300-01	2.4000-03
-4.2	1.9000-02	7.3000-06	1.9100-03	9.8500-19	9.7700-01	1.9100-03
-4.0	2.9300-02	9.0000-06	1.5100-03	6.2700-19	9.6800-01	1.5200-03
-3.8	4.4400-02	1.1000-05	1.2000-03	4.0000-19	9.5300-01	1.2100-03
-3.6	6.5900-02	1.3200-05	9.5000-04	2.5700-19	9.3200-01	9.6300-04
-3.4	9.5400-02	1.5600-05	7.5000-04	1.6500-19	9.0300-01	7.6600-04
-3.2	1.3400-01	1.8000-05	5.9100-04	1.0700-19	8.6500-01	6.0900-04
-3.0	1.8200-01	2.0200-05	4.6300-04	6.9600-20	8.1700-01	4.8300-04
-2.8	2.3800-01	2.2200-05	3.6000-04	4.5300-20	7.6100-01	3.8200-04
-2.6	3.0200-01	2.3600-05	2.7800-04	2.9400-20	6.9800-01	3.0200-04
-2.4	3.7000-01	2.4500-05	2.1200-04	1.9000-20	6.2900-01	2.3700-04
-2.2	4.4000-01	2.4800-05	1.6000-04	1.2200-20	5.5900-01	1.8500-04
-2.0	5.1000-01	2.4500-05	1.1900-04	7.7300-21	4.9000-01	1.4400-04
-1.8	5.7700-01	2.3600-05	8.7700-05	4.8400-21	4.2300-01	1.1100-04
-1.6	6.4000-01	2.2200-05	6.3600-05	2.9900-21	3.6000-01	8.5800-05
-1.4	6.9600-01	2.0500-05	4.5500-05	1.8200-21	3.0400-01	6.6100-05
-1.2	7.4600-01	1.8600-05	3.2100-05	1.0900-21	2.5300-01	5.0800-05
-1.0	7.9000-01	1.6600-05	2.2400-05	6.3800-22	2.1000-01	3.9000-05
-.8	8.2800-01	1.4600-05	1.5400-05	3.6800-22	1.7200-01	3.0000-05
-.6	8.5900-01	1.2600-05	1.0500-05	2.0900-22	1.4100-01	2.3100-05
-.4	8.8600-01	1.0800-05	7.0700-06	1.1700-22	1.1400-01	1.7900-05
-.2	9.0800-01	9.1200-06	4.7200-06	6.4300-23	9.2300-02	1.3800-05
.0	9.2600-01	7.6400-06	3.1200-06	3.4900-23	7.4400-02	1.0800-05
.2	9.4000-01	6.3400-06	2.0500-06	1.8700-23	5.9800-02	8.3900-06
.4	9.5200-01	5.2300-06	1.3400-06	9.9400-24	4.7900-02	6.5700-06
.6	9.6200-01	4.2900-06	8.7000-07	5.2200-24	3.8300-02	5.1600-06
.8	9.6900-01	3.5000-06	5.6300-07	2.7200-24	3.0500-02	4.0700-06
1.0	9.7600-01	2.8500-06	3.6400-07	1.4000-24	2.4300-02	3.2200-06
1.2	9.8100-01	2.3200-06	2.3500-07	7.1900-25	1.9300-02	2.5600-06
1.4	9.8500-01	1.9000-06	1.5200-07	3.6500-25	1.5300-02	2.0500-06
1.6	9.8800-01	1.5600-06	9.8900-08	1.8300-25	1.2000-02	1.6600-06
1.8	9.9100-01	1.2900-06	6.5000-08	9.0900-26	9.3900-03	1.3500-06
2.0	9.9300-01	1.0900-06	4.3400-08	4.4200-26	7.2600-03	1.1300-06
2.2	9.9400-01	9.4500-07	2.9800-08	2.0900-26	5.5200-03	9.7500-07



T= 6300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.0938+00	2.3913+01	2.6007+01	7.9868+01	-5.3161+00	2.0938+00
-6.8	2.0748+00	2.3378+01	2.5453+01	7.8374+01	-5.1201+00	2.0748+00
-6.6	2.0596+00	2.2949+01	2.5009+01	7.6993+01	-4.9233+00	2.0596+00
-6.4	2.0473+00	2.2605+01	2.4653+01	7.5703+01	-4.7259+00	2.0474+00
-6.2	2.0375+00	2.2329+01	2.4367+01	7.4487+01	-4.5280+00	2.0375+00
-6.0	2.0295+00	2.2107+01	2.4136+01	7.3328+01	-4.3297+00	2.0295+00
-5.8	2.0230+00	2.1926+01	2.3949+01	7.2214+01	-4.1311+00	2.0230+00
-5.6	2.0175+00	2.1777+01	2.3794+01	7.1134+01	-3.9322+00	2.0175+00
-5.4	2.0126+00	2.1650+01	2.3663+01	7.0079+01	-3.7333+00	2.0127+00
-5.2	2.0081+00	2.1536+01	2.3544+01	6.9039+01	-3.5343+00	2.0081+00
-5.0	2.0033+00	2.1424+01	2.3427+01	6.8004+01	-3.3353+00	2.0033+00
-4.8	1.9977+00	2.1303+01	2.3301+01	6.6962+01	-3.1365+00	1.9977+00
-4.6	1.9904+00	2.1158+01	2.3148+01	6.5898+01	-2.9381+00	1.9905+00
-4.4	1.9805+00	2.0966+01	2.2947+01	6.4792+01	-2.7403+00	1.9805+00
-4.2	1.9663+00	2.0702+01	2.2668+01	6.3619+01	-2.5434+00	1.9663+00
-4.0	1.9459+00	2.0328+01	2.2274+01	6.2344+01	-2.3479+00	1.9460+00
-3.8	1.9172+00	1.9806+01	2.1723+01	6.0932+01	-2.1544+00	1.9172+00
-3.6	1.8780+00	1.9098+01	2.0976+01	5.9350+01	-1.9634+00	1.8780+00
-3.4	1.8271+00	1.8181+01	2.0008+01	5.7579+01	-1.7753+00	1.8271+00
-3.2	1.7648+00	1.7059+01	1.8824+01	5.5629+01	-1.5904+00	1.7648+00
-3.0	1.6931+00	1.5770+01	1.7463+01	5.3544+01	-1.4084+00	1.6930+00
-2.8	1.6156+00	1.4378+01	1.5994+01	5.1390+01	-1.2287+00	1.6156+00
-2.6	1.5366+00	1.2959+01	1.4496+01	4.9246+01	-1.0505+00	1.5366+00
-2.4	1.4600+00	1.1584+01	1.3044+01	4.7180+01	-8.7271-01	1.4600+00
-2.2	1.3887+00	1.0303+01	1.1692+01	4.5244+01	-6.9446-01	1.3886+00
-2.0	1.3245+00	9.1512+00	1.0476+01	4.3468+01	-5.1502-01	1.3245+00
-1.8	1.2682+00	8.1416+00	9.4098+00	4.1861+01	-3.3386-01	1.2682+00
-1.6	1.2200+00	7.2753+00	8.4953+00	4.0422+01	-1.5071-01	1.2199+00
-1.4	1.1792+00	6.5441+00	7.7233+00	3.9139+01	3.4546-02	1.1792+00
-1.2	1.1453+00	5.9349+00	7.0802+00	3.7995+01	2.2187-01	1.1452+00
-1.0	1.1174+00	5.4323+00	6.5497+00	3.6971+01	4.1114-01	1.1172+00
-.8	1.0946+00	5.0211+00	6.1157+00	3.6051+01	6.0218-01	1.0943+00
-.6	1.0760+00	4.6867+00	5.7628+00	3.5217+01	7.9477-01	1.0757+00
-.4	1.0612+00	4.4161+00	5.4773+00	3.4454+01	9.8873-01	1.0606+00
-.2	1.0493+00	4.1980+00	5.2473+00	3.3750+01	1.1839+00	1.0484+00
.0	1.0401+00	4.0227+00	5.0628+00	3.3094+01	1.3800+00	1.0387+00
.2	1.0331+00	3.8821+00	4.9152+00	3.2476+01	1.5771+00	1.0308+00
.4	1.0281+00	3.7697+00	4.7978+00	3.1889+01	1.7750+00	1.0245+00
.6	1.0251+00	3.6799+00	4.7050+00	3.1327+01	1.9737+00	1.0195+00
.8	1.0244+00	3.6084+00	4.6328+00	3.0783+01	2.1734+00	1.0155+00
1.0	1.0263+00	3.5515+00	4.5779+00	3.0254+01	2.3742+00	1.0123+00
1.2	1.0319+00	3.5066+00	4.5385+00	2.9736+01	2.5766+00	1.0097+00
1.4	1.0428+00	3.4715+00	4.5142+00	2.9223+01	2.7811+00	1.0077+00
1.6	1.0615+00	3.4445+00	4.5061+00	2.8712+01	2.9889+00	1.0060+00
1.8	1.0925+00	3.4249+00	4.5174+00	2.8197+01	3.2014+00	1.0047+00
2.0	1.1426+00	3.4122+00	4.5548+00	2.7671+01	3.4208+00	1.0036+00
2.2	1.2228+00	3.4068+00	4.6296+00	2.7122+01	3.6503+00	1.0028+00

T= 6400

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.0400-05	2.5700-07	5.4900-02	1.3900-15	8.9000-01	5.5000-02
-6.8	3.3500-05	3.3400-07	4.4400-02	8.8400-16	9.1100-01	4.4400-02
-6.6	5.4600-05	4.3000-07	3.5800-02	5.6300-16	9.2800-01	3.5800-02
-6.4	8.8500-05	5.5200-07	2.8700-02	3.5800-16	9.4200-01	2.8700-02
-6.2	1.4300-04	7.0500-07	2.3000-02	2.2700-16	9.5400-01	2.3000-02
-6.0	2.3000-04	8.9800-07	1.8400-02	1.4400-16	9.6300-01	1.8400-02
-5.8	3.6800-04	1.1400-06	1.4700-02	9.1300-17	9.7000-01	1.4700-02
-5.6	5.8800-04	1.4500-06	1.1700-02	5.7800-17	9.7600-01	1.1700-02
-5.4	9.3800-04	1.8300-06	9.3600-03	3.6600-17	9.8000-01	9.3700-03
-5.2	1.4900-03	2.3200-06	7.4600-03	2.3100-17	9.8400-01	7.4600-03
-5.0	2.3700-03	2.9200-06	5.9400-03	1.4600-17	9.8600-01	5.9400-03
-4.8	3.7500-03	3.6800-06	4.7300-03	9.2500-18	9.8700-01	4.7300-03
-4.6	5.9300-03	4.6200-06	3.7600-03	5.8600-18	9.8700-01	3.7600-03
-4.4	9.3200-03	5.7900-06	2.9900-03	3.7100-18	9.8500-01	2.9900-03
-4.2	1.4600-02	7.2200-06	2.3700-03	2.3500-18	9.8100-01	2.3800-03
-4.0	2.2600-02	8.9400-06	1.8900-03	1.4900-18	9.7400-01	1.8900-03
-3.8	3.4500-02	1.1000-05	1.5000-03	9.5300-19	9.6200-01	1.5100-03
-3.6	5.2000-02	1.3300-05	1.1900-03	6.0900-19	9.4600-01	1.2000-03
-3.4	7.6400-02	1.5900-05	9.3900-04	3.9200-19	9.2200-01	9.5500-04
-3.2	1.0900-01	1.8600-05	7.4100-04	2.5300-19	8.8900-01	7.5900-04
-3.0	1.5200-01	2.1300-05	5.8200-04	1.6400-19	8.4700-01	6.0300-04
-2.8	2.0300-01	2.3700-05	4.5500-04	1.0600-19	7.9600-01	4.7800-04
-2.6	2.6300-01	2.5700-05	3.5300-04	6.9200-20	7.3700-01	3.7800-04
-2.4	3.2800-01	2.7100-05	2.7100-04	4.4800-20	6.7100-01	2.9800-04
-2.2	3.9800-01	2.7800-05	2.0600-04	2.8900-20	6.0200-01	2.3400-04
-2.0	4.6800-01	2.7800-05	1.5400-04	1.8400-20	5.3200-01	1.8200-04
-1.8	5.3700-01	2.7200-05	1.1400-04	1.1600-20	4.6300-01	1.4200-04
-1.6	6.0200-01	2.5900-05	8.3600-05	7.2300-21	3.9800-01	1.1000-04
-1.4	6.6200-01	2.4200-05	6.0300-05	4.4300-21	3.3700-01	8.4500-05
-1.2	7.1700-01	2.2200-05	4.2900-05	2.6700-21	2.8300-01	6.5000-05
-1.0	7.6400-01	2.0000-05	3.0100-05	1.5800-21	2.3600-01	5.0000-05
-.8	8.0600-01	1.7700-05	2.0800-05	9.2000-22	1.9400-01	3.8500-05
-.6	8.4100-01	1.5400-05	1.4300-05	5.2600-22	1.5900-01	2.9700-05
-.4	8.7000-01	1.3300-05	9.6600-06	2.9600-22	1.3000-01	2.2900-05
-.2	8.9500-01	1.1300-05	6.4700-06	1.6400-22	1.0500-01	1.7700-05
.0	9.1500-01	9.4800-06	4.3000-06	8.9800-23	8.4800-02	1.3800-05
.2	9.3200-01	7.9100-06	2.8400-06	4.8400-23	6.8300-02	1.0700-05
.4	9.4500-01	6.5400-06	1.8600-06	2.5800-23	5.4800-02	8.4000-06
.6	9.5600-01	5.3800-06	1.2100-06	1.3600-23	4.3800-02	6.5900-06
.8	9.6500-01	4.4100-06	7.8500-07	7.1200-24	3.5000-02	5.1900-06
1.0	9.7200-01	3.6000-06	5.0800-07	3.6900-24	2.7900-02	4.1100-06
1.2	9.7800-01	2.9400-06	3.2900-07	1.9000-24	2.2100-02	3.2700-06
1.4	9.8200-01	2.4000-06	2.1300-07	9.6500-25	1.7500-02	2.6100-06
1.6	9.8600-01	1.9700-06	1.3800-07	4.8600-25	1.3800-02	2.1100-06
1.8	9.8900-01	1.6400-06	9.0900-08	2.4100-25	1.0800-02	1.7300-06
2.0	9.9200-01	1.3800-06	6.0700-08	1.1800-25	8.3500-03	1.4400-06
2.2	9.9400-01	1.2000-06	4.1600-08	5.5700-26	6.3500-03	1.2400-06

T= 6400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.1162+00	2.4232+01	2.6348+01	8.0566+01	-5.3047+00	2.1162+00
-6.8	2.0929+00	2.3583+01	2.5676+01	7.8948+01	-5.1095+00	2.0929+00
-6.6	2.0741+00	2.3061+01	2.5135+01	7.7467+01	-4.9134+00	2.0741+00
-6.4	2.0590+00	2.2643+01	2.4702+01	7.6097+01	-4.7166+00	2.0590+00
-6.2	2.0468+00	2.2307+01	2.4353+01	7.4815+01	-4.5191+00	2.0468+00
-6.0	2.0371+00	2.2037+01	2.4074+01	7.3605+01	-4.3212+00	2.0371+00
-5.8	2.0291+00	2.1819+01	2.3848+01	7.2451+01	-4.1229+00	2.0291+00
-5.6	2.0226+00	2.1641+01	2.3664+01	7.1341+01	-3.9243+00	2.0226+00
-5.4	2.0170+00	2.1494+01	2.3511+01	7.0263+01	-3.7255+00	2.0170+00
-5.2	2.0120+00	2.1366+01	2.3378+01	6.9208+01	-3.5266+00	2.0120+00
-5.0	2.0072+00	2.1250+01	2.3257+01	6.8166+01	-3.3276+00	2.0072+00
-4.8	2.0019+00	2.1132+01	2.3134+01	6.7125+01	-3.1288+00	2.0019+00
-4.6	1.9957+00	2.1002+01	2.2997+01	6.6074+01	-2.9301+00	1.9957+00
-4.4	1.9874+00	2.0840+01	2.2828+01	6.4995+01	-2.7319+00	1.9874+00
-4.2	1.9759+00	2.0624+01	2.2600+01	6.3867+01	-2.5345+00	1.9759+00
-4.0	1.9595+00	2.0324+01	2.2283+01	6.2660+01	-2.3381+00	1.9595+00
-3.8	1.9360+00	1.9902+01	2.1838+01	6.1340+01	-2.1433+00	1.9360+00
-3.6	1.9034+00	1.9318+01	2.1221+01	5.9872+01	-1.9507+00	1.9034+00
-3.4	1.8596+00	1.8540+01	2.0400+01	5.8227+01	-1.7608+00	1.8596+00
-3.2	1.8040+00	1.7554+01	1.9358+01	5.6397+01	-1.5740+00	1.8040+00
-3.0	1.7376+00	1.6377+01	1.8115+01	5.4405+01	-1.3903+00	1.7376+00
-2.8	1.6631+00	1.5059+01	1.6722+01	5.2303+01	-1.2093+00	1.6631+00
-2.6	1.5846+00	1.3668+01	1.5253+01	5.0165+01	-1.0303+00	1.5846+00
-2.4	1.5061+00	1.2280+01	1.3786+01	4.8065+01	-8.5238-01	1.5061+00
-2.2	1.4312+00	1.0956+01	1.2388+01	4.6065+01	-6.7451-01	1.4312+00
-2.0	1.3626+00	9.7420+00	1.1105+01	4.4208+01	-4.9587-01	1.3625+00
-1.8	1.3014+00	8.6613+00	9.9627+00	4.2514+01	-3.1580-01	1.3014+00
-1.6	1.2484+00	7.7227+00	8.9711+00	4.0988+01	-1.3388-01	1.2483+00
-1.4	1.2031+00	6.9230+00	8.1261+00	3.9624+01	5.0093-02	1.2031+00
-1.2	1.1652+00	6.2516+00	7.4168+00	3.8408+01	2.3618-01	1.1651+00
-1.0	1.1337+00	5.6946+00	6.8283+00	3.7322+01	4.2429-01	1.1336+00
-.8	1.1079+00	5.2367+00	6.3446+00	3.6348+01	6.1428-01	1.1077+00
-.6	1.0869+00	4.8630+00	5.9499+00	3.5469+01	8.0597-01	1.0865+00
-.4	1.0699+00	4.5597+00	5.6297+00	3.4669+01	9.9914-01	1.0694+00
-.2	1.0564+00	4.3147+00	5.3711+00	3.3935+01	1.1936+00	1.0555+00
.0	1.0458+00	4.1174+00	5.1632+00	3.3254+01	1.3892+00	1.0443+00
.2	1.0376+00	3.9591+00	4.9967+00	3.2616+01	1.5858+00	1.0354+00
.4	1.0317+00	3.8322+00	4.8640+00	3.2012+01	1.7834+00	1.0282+00
.6	1.0280+00	3.7308+00	4.7589+00	3.1437+01	1.9818+00	1.0224+00
.8	1.0267+00	3.6500+00	4.6767+00	3.0883+01	2.1812+00	1.0178+00
1.0	1.0282+00	3.5856+00	4.6138+00	3.0346+01	2.3818+00	1.0141+00
1.2	1.0334+00	3.5347+00	4.5681+00	2.9820+01	2.5840+00	1.0112+00
1.4	1.0439+00	3.4947+00	4.5386+00	2.9302+01	2.7884+00	1.0088+00
1.6	1.0624+00	3.4640+00	4.5263+00	2.8787+01	2.9961+00	1.0069+00
1.8	1.0931+00	3.4412+00	4.5343+00	2.8268+01	3.2084+00	1.0054+00
2.0	1.1430+00	3.4260+00	4.5689+00	2.7739+01	3.4278+00	1.0042+00
2.2	1.2229+00	3.4186+00	4.6415+00	2.7188+01	3.6572+00	1.0032+00

T= 6500

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.4900-05	2.4400-07	6.6700-02	3.2000-15	8.6700-01	6.6700-02
-6.8	2.4700-05	3.1800-07	5.4100-02	2.0400-15	8.9200-01	5.4100-02
-6.6	4.0500-05	4.1300-07	4.3700-02	1.3000-15	9.1200-01	4.3700-02
-6.4	6.6000-05	5.3200-07	3.5200-02	8.3000-16	9.2900-01	3.5200-02
-6.2	1.0700-04	6.8200-07	2.8300-02	5.2800-16	9.4300-01	2.8300-02
-6.0	1.7300-04	8.7100-07	2.2700-02	3.3500-16	9.5400-01	2.2700-02
-5.8	2.7700-04	1.1100-06	1.8100-02	2.1200-16	9.6300-01	1.8100-02
-5.6	4.4400-04	1.4100-06	1.4500-02	1.3500-16	9.7100-01	1.4500-02
-5.4	7.1000-04	1.7900-06	1.1600-02	8.5200-17	9.7600-01	1.1600-02
-5.2	1.1300-03	2.2600-06	9.2100-03	5.3900-17	9.8000-01	9.2200-03
-5.0	1.8000-03	2.8600-06	7.3400-03	3.4100-17	9.8400-01	7.3400-03
-4.8	2.8600-03	3.6000-06	5.8400-03	2.1600-17	9.8500-01	5.8500-03
-4.6	4.5200-03	4.5300-06	4.6500-03	1.3700-17	9.8600-01	4.6500-03
-4.4	7.1300-03	5.6900-06	3.7000-03	8.6400-18	9.8500-01	3.7000-03
-4.2	1.1200-02	7.1200-06	2.9400-03	5.4800-18	9.8300-01	2.9500-03
-4.0	1.7400-02	8.8500-06	2.3400-03	3.4800-18	9.7800-01	2.3400-03
-3.8	2.6900-02	1.0900-05	1.8500-03	2.2100-18	9.6900-01	1.8700-03
-3.6	4.0900-02	1.3400-05	1.4700-03	1.4100-18	9.5600-01	1.4800-03
-3.4	6.1000-02	1.6100-05	1.1700-03	9.0400-19	9.3700-01	1.1800-03
-3.2	8.8800-02	1.9100-05	9.2100-04	5.8200-19	9.0900-01	9.4000-04
-3.0	1.2500-01	2.2200-05	7.2600-04	3.7600-19	8.7300-01	7.4800-04
-2.8	1.7200-01	2.5100-05	5.6900-04	2.4400-19	8.2700-01	5.9400-04
-2.6	2.2600-01	2.7600-05	4.4300-04	1.5900-19	7.7300-01	4.7100-04
-2.4	2.8900-01	2.9600-05	3.4200-04	1.0300-19	7.1000-01	3.7200-04
-2.2	3.5600-01	3.0800-05	2.6200-04	6.6500-20	6.4300-01	2.9200-04
-2.0	4.2600-01	3.1300-05	1.9800-04	4.2700-20	5.7300-01	2.2900-04
-1.8	4.9600-01	3.0900-05	1.4700-04	2.7100-20	5.0300-01	1.7800-04
-1.6	5.6400-01	2.9900-05	1.0900-04	1.6900-20	4.3600-01	1.3800-04
-1.4	6.2800-01	2.8200-05	7.8800-05	1.0500-20	3.7200-01	1.0700-04
-1.2	6.8500-01	2.6200-05	5.6400-05	6.3500-21	3.1400-01	8.2600-05
-1.0	7.3700-01	2.3800-05	3.9900-05	3.7900-21	2.6300-01	6.3600-05
-.8	7.8200-01	2.1200-05	2.7800-05	2.2300-21	2.1800-01	4.9000-05
-.6	8.2100-01	1.8600-05	1.9100-05	1.2800-21	1.7900-01	3.7800-05
-.4	8.5300-01	1.6100-05	1.3000-05	7.2900-22	1.4600-01	2.9200-05
-.2	8.8100-01	1.3800-05	8.7800-06	4.0700-22	1.1900-01	2.2600-05
.0	9.0400-01	1.1700-05	5.8600-06	2.2400-22	9.6300-02	1.7500-05
.2	9.2200-01	9.7800-06	3.8800-06	1.2100-22	7.7600-02	1.3700-05
.4	9.3800-01	8.1300-06	2.5500-06	6.5100-23	6.2400-02	1.0700-05
.6	9.5000-01	6.7100-06	1.6600-06	3.4500-23	5.0000-02	8.3700-06
.8	9.6000-01	5.5100-06	1.0800-06	1.8100-23	3.9900-02	6.5900-06
1.0	9.6800-01	4.5100-06	7.0200-07	9.4100-24	3.1800-02	5.2100-06
1.2	9.7500-01	3.6900-06	4.5400-07	4.8500-24	2.5300-02	4.1400-06
1.4	9.8000-01	3.0200-06	2.9500-07	2.4800-24	2.0000-02	3.3100-06
1.6	9.8400-01	2.4800-06	1.9200-07	1.2500-24	1.5800-02	2.6700-06
1.8	9.8800-01	2.0600-06	1.2600-07	6.2300-25	1.2400-02	2.1900-06
2.0	9.9000-01	1.7400-06	8.4100-08	3.0400-25	9.5600-03	1.8300-06
2.2	9.9300-01	1.5200-06	5.7600-08	1.4400-25	7.2700-03	1.5700-06

T= 6500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.1429+00	2.4659+01	2.6802+01	8.1372+01	-5.2925+00	2.1430+00
-6.8	2.1144+00	2.3878+01	2.5992+01	7.9610+01	-5.0983+00	2.1144+00
-6.6	2.0914+00	2.3248+01	2.5339+01	7.8012+01	-4.9031+00	2.0914+00
-6.4	2.0729+00	2.2742+01	2.4815+01	7.6548+01	-4.7069+00	2.0729+00
-6.2	2.0580+00	2.2336+01	2.4394+01	7.5190+01	-4.5100+00	2.0580+00
-6.0	2.0460+00	2.2009+01	2.4055+01	7.3919+01	-4.3126+00	2.0460+00
-5.8	2.0363+00	2.1747+01	2.3783+01	7.2717+01	-4.1146+00	2.0364+00
-5.6	2.0285+00	2.1535+01	2.3563+01	7.1569+01	-3.9163+00	2.0285+00
-5.4	2.0219+00	2.1361+01	2.3383+01	7.0462+01	-3.7177+00	2.0219+00
-5.2	2.0163+00	2.1215+01	2.3231+01	6.9387+01	-3.5189+00	2.0163+00
-5.0	2.0111+00	2.1087+01	2.3098+01	6.8332+01	-3.3200+00	2.0111+00
-4.8	2.0060+00	2.0967+01	2.2973+01	6.7287+01	-3.1212+00	2.0060+00
-4.6	2.0002+00	2.0843+01	2.2844+01	6.6240+01	-2.9224+00	2.0003+00
-4.4	1.9931+00	2.0701+01	2.2694+01	6.5178+01	-2.7239+00	1.9932+00
-4.2	1.9836+00	2.0520+01	2.2503+01	6.4081+01	-2.5260+00	1.9836+00
-4.0	1.9702+00	2.0274+01	2.2245+01	6.2925+01	-2.3290+00	1.9702+00
-3.8	1.9511+00	1.9932+01	2.1883+01	6.1680+01	-2.1332+00	1.9511+00
-3.6	1.9241+00	1.9454+01	2.1378+01	6.0309+01	-1.9393+00	1.9241+00
-3.4	1.8871+00	1.8803+01	2.0690+01	5.8780+01	-1.7477+00	1.8871+00
-3.2	1.8384+00	1.7951+01	1.9790+01	5.7070+01	-1.5590+00	1.8384+00
-3.0	1.7782+00	1.6898+01	1.8677+01	5.5184+01	-1.3735+00	1.7782+00
-2.8	1.7080+00	1.5674+01	1.7382+01	5.3156+01	-1.1910+00	1.7080+00
-2.6	1.6313+00	1.4336+01	1.5968+01	5.1050+01	-1.0109+00	1.6313+00
-2.4	1.5523+00	1.2958+01	1.4511+01	4.8939+01	-8.3252-01	1.5523+00
-2.2	1.4749+00	1.1610+01	1.3085+01	4.6893+01	-6.5473-01	1.4749+00
-2.0	1.4023+00	1.0345+01	1.1748+01	4.4966+01	-4.7664-01	1.4023+00
-1.8	1.3366+00	9.2006+00	1.0537+01	4.3191+01	-2.9748-01	1.3366+00
-1.6	1.2788+00	8.1928+00	9.4716+00	4.1582+01	-1.1669-01	1.2787+00
-1.4	1.2290+00	7.3248+00	8.5538+00	4.0137+01	6.6051-02	1.2289+00
-1.2	1.1868+00	6.5900+00	7.7768+00	3.8846+01	2.5089-01	1.1867+00
-1.0	1.1516+00	5.9764+00	7.1780+00	3.7694+01	4.3782-01	1.1515+00
-.8	1.1226+00	5.4693+00	6.5919+00	3.6663+01	6.2674-01	1.1223+00
-.6	1.0989+00	5.0538+00	6.1527+00	3.5737+01	8.1746-01	1.0985+00
-.4	1.0796+00	4.7155+00	5.7952+00	3.4897+01	1.0098+00	1.0791+00
-.2	1.0642+00	4.4415+00	5.5058+00	3.4129+01	1.2036+00	1.0633+00
.0	1.0521+00	4.2205+00	5.2726+00	3.3421+01	1.3986+00	1.0506+00
.2	1.0427+00	4.0428+00	5.0854+00	3.2761+01	1.5947+00	1.0404+00
.4	1.0358+00	3.9002+00	4.9360+00	3.2140+01	1.7918+00	1.0322+00
.6	1.0313+00	3.7862+00	4.8174+00	3.1550+01	1.9899+00	1.0256+00
.8	1.0293+00	3.6951+00	4.7244+00	3.0985+01	2.1890+00	1.0204+00
1.0	1.0302+00	3.6226+00	4.6528+00	3.0438+01	2.3894+00	1.0162+00
1.2	1.0350+00	3.5651+00	4.6000+00	2.9905+01	2.5914+00	1.0128+00
1.4	1.0451+00	3.5198+00	4.5650+00	2.9381+01	2.7957+00	1.0101+00
1.6	1.0633+00	3.4848+00	4.5481+00	2.8861+01	3.0032+00	1.0080+00
1.8	1.0938+00	3.4586+00	4.5524+00	2.8339+01	3.2154+00	1.0062+00
2.0	1.1434+00	3.4407+00	4.5841+00	2.7807+01	3.4347+00	1.0048+00
2.2	1.2230+00	3.4311+00	4.6541+00	2.7254+01	3.6639+00	1.0037+00

T= 6600

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0900-05	2.3000-07	8.0200-02	7.1700-15	8.4000-01	8.0200-02
-6.8	1.8200-05	3.0300-07	6.5400-02	4.6000-15	8.6900-01	6.5400-02
-6.6	3.0100-05	3.9500-07	5.3000-02	2.9400-15	8.9400-01	5.3000-02
-6.4	4.9400-05	5.1100-07	4.2800-02	1.8800-15	9.1400-01	4.2800-02
-6.2	8.0500-05	6.5900-07	3.4500-02	1.1900-15	9.3100-01	3.4500-02
-6.0	1.3000-04	8.4400-07	2.7700-02	7.5900-16	9.4500-01	2.7700-02
-5.8	2.1000-04	1.0800-06	2.2200-02	4.8200-16	9.5500-01	2.2200-02
-5.6	3.3800-04	1.3700-06	1.7700-02	3.0500-16	9.6400-01	1.7700-02
-5.4	5.4100-04	1.7400-06	1.4200-02	1.9300-16	9.7100-01	1.4200-02
-5.2	8.6400-04	2.2100-06	1.1300-02	1.2200-16	9.7700-01	1.1300-02
-5.0	1.3800-03	2.8000-06	9.0100-03	7.7500-17	9.8100-01	9.0100-03
-4.8	2.1900-03	3.5300-06	7.1800-03	4.9000-17	9.8300-01	7.1800-03
-4.6	3.4700-03	4.4500-06	5.7100-03	3.1000-17	9.8500-01	5.7200-03
-4.4	5.4900-03	5.6000-06	4.5500-03	1.9600-17	9.8500-01	4.5500-03
-4.2	8.6400-03	7.0100-06	3.6100-03	1.2400-17	9.8400-01	3.6200-03
-4.0	1.3500-02	8.7600-06	2.8700-03	7.8900-18	9.8100-01	2.8800-03
-3.8	2.1000-02	1.0900-05	2.2800-03	5.0100-18	9.7400-01	2.2900-03
-3.6	3.2200-02	1.3400-05	1.8100-03	3.1900-18	9.6400-01	1.8200-03
-3.4	4.8600-02	1.6300-05	1.4400-03	2.0400-18	9.4800-01	1.4500-03
-3.2	7.1800-02	1.9500-05	1.1400-03	1.3100-18	9.2600-01	1.1600-03
-3.0	1.0300-01	2.2900-05	8.9700-04	8.4500-19	8.9500-01	9.2000-04
-2.8	1.4400-01	2.6200-05	7.0500-04	5.4700-19	8.5500-01	7.3200-04
-2.6	1.9400-01	2.9300-05	5.5100-04	3.5500-19	8.0500-01	5.8100-04
-2.4	2.5200-01	3.1900-05	4.2800-04	2.3100-19	7.4700-01	4.6000-04
-2.2	3.1700-01	3.3800-05	3.2900-04	1.4900-19	6.8200-01	3.6300-04
-2.0	3.8600-01	3.4800-05	2.5000-04	9.6100-20	6.1300-01	2.8500-04
-1.8	4.5600-01	3.4900-05	1.8800-04	6.1300-20	5.4300-01	2.2300-04
-1.6	5.2600-01	3.4100-05	1.3900-04	3.8600-20	4.7400-01	1.7300-04
-1.4	5.9200-01	3.2700-05	1.0200-04	2.4000-20	4.0800-01	1.3500-04
-1.2	6.5300-01	3.0600-05	7.3500-05	1.4700-20	3.4700-01	1.0400-04
-1.0	7.0800-01	2.8000-05	5.2300-05	8.8400-21	2.9200-01	8.0300-05
-.8	7.5700-01	2.5200-05	3.6700-05	5.2300-21	2.4300-01	6.1900-05
-.6	7.9900-01	2.2400-05	2.5400-05	3.0400-21	2.0100-01	4.7800-05
-.4	8.3500-01	1.9500-05	1.7400-05	1.7400-21	1.6500-01	3.6900-05
-.2	8.6600-01	1.6800-05	1.1800-05	9.7700-22	1.3400-01	2.8500-05
.0	8.9100-01	1.4300-05	7.8900-06	5.4100-22	1.0900-01	2.2200-05
.2	9.1200-01	1.2000-05	5.2400-06	2.9500-22	8.7900-02	1.7200-05
.4	9.2900-01	1.0000-05	3.4500-06	1.5900-22	7.0700-02	1.3500-05
.6	9.4300-01	8.2900-06	2.2600-06	8.4800-23	5.6700-02	1.0600-05
.8	9.5500-01	6.8300-06	1.4800-06	4.4700-23	4.5400-02	8.3100-06
1.0	9.6400-01	5.6100-06	9.5900-07	2.3300-23	3.6200-02	6.5600-06
1.2	9.7100-01	4.5900-06	6.2200-07	1.2100-23	2.8800-02	5.2100-06
1.4	9.7700-01	3.7700-06	4.0400-07	6.1700-24	2.2800-02	4.1700-06
1.6	9.8200-01	3.1000-06	2.6300-07	3.1200-24	1.8000-02	3.3700-06
1.8	9.8600-01	2.5800-06	1.7300-07	1.5600-24	1.4100-02	2.7500-06
2.0	9.8900-01	2.1800-06	1.1500-07	7.6400-25	1.0900-02	2.3000-06
2.2	9.9200-01	1.9000-06	7.8800-08	3.6300-25	8.3000-03	1.9800-06

T= 6600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.1744+00	2.5203+01	2.7377+01	8.2296+01	-5.2795+00	2.1744+00
-6.8	2.1398+00	2.4270+01	2.6410+01	8.0370+01	-5.0865+00	2.1398+00
-6.6	2.1119+00	2.3517+01	2.5628+01	7.8638+01	-4.8922+00	2.1119+00
-6.4	2.0893+00	2.2909+01	2.4999+01	7.7063+01	-4.6968+00	2.0893+00
-6.2	2.0712+00	2.2421+01	2.4492+01	7.5617+01	-4.5006+00	2.0712+00
-6.0	2.0566+00	2.2029+01	2.4086+01	7.4275+01	-4.3037+00	2.0566+00
-5.8	2.0449+00	2.1714+01	2.3759+01	7.3016+01	-4.1062+00	2.0449+00
-5.6	2.0354+00	2.1461+01	2.3496+01	7.1823+01	-3.9082+00	2.0354+00
-5.4	2.0276+00	2.1255+01	2.3282+01	7.0681+01	-3.7099+00	2.0276+00
-5.2	2.0211+00	2.1085+01	2.3106+01	6.9579+01	-3.5113+00	2.0211+00
-5.0	2.0154+00	2.0941+01	2.2956+01	6.8506+01	-3.3125+00	2.0154+00
-4.8	2.0100+00	2.0812+01	2.2822+01	6.7451+01	-3.1137+00	2.0100+00
-4.6	2.0045+00	2.0688+01	2.2693+01	6.6402+01	-2.9149+00	2.0045+00
-4.4	1.9981+00	2.0556+01	2.2554+01	6.5348+01	-2.7162+00	1.9981+00
-4.2	1.9900+00	2.0398+01	2.2388+01	6.4272+01	-2.5180+00	1.9900+00
-4.0	1.9789+00	2.0193+01	2.2172+01	6.3153+01	-2.3204+00	1.9789+00
-3.8	1.9632+00	1.9913+01	2.1876+01	6.1964+01	-2.1239+00	1.9633+00
-3.6	1.9410+00	1.9521+01	2.1462+01	6.0674+01	-1.9288+00	1.9410+00
-3.4	1.9099+00	1.8980+01	2.0890+01	5.9246+01	-1.7359+00	1.9099+00
-3.2	1.8680+00	1.8255+01	2.0123+01	5.7650+01	-1.5455+00	1.8680+00
-3.0	1.8143+00	1.7329+01	1.9143+01	5.5876+01	-1.3582+00	1.8143+00
-2.8	1.7494+00	1.6213+01	1.7962+01	5.3939+01	-1.1740+00	1.7494+00
-2.6	1.6760+00	1.4950+01	1.6625+01	5.1886+01	-9.9259-01	1.6760+00
-2.4	1.5977+00	1.3605+01	1.5203+01	4.9788+01	-8.1336-01	1.5977+00
-2.2	1.5189+00	1.2251+01	1.3770+01	4.7717+01	-6.3532-01	1.5189+00
-2.0	1.4433+00	1.0952+01	1.2395+01	4.5735+01	-4.5751-01	1.4432+00
-1.8	1.3734+00	9.7525+00	1.1126+01	4.3888+01	-2.7905-01	1.3734+00
-1.6	1.3110+00	8.6806+00	9.9916+00	4.2198+01	-9.9254-02	1.3110+00
-1.4	1.2566+00	7.7463+00	9.0029+00	4.0673+01	8.2338-02	1.2565+00
-1.2	1.2101+00	6.9479+00	8.1581+00	3.9307+01	2.6597-01	1.2100+00
-1.0	1.1710+00	6.2763+00	7.4473+00	3.8087+01	4.5172-01	1.1709+00
-.8	1.1386+00	5.7181+00	6.8567+00	3.6997+01	6.3952-01	1.1384+00
-.6	1.1120+00	5.2586+00	6.3706+00	3.6020+01	8.2923-01	1.1116+00
-.4	1.0903+00	4.8832+00	5.9735+00	3.5138+01	1.0207+00	1.0897+00
-.2	1.0729+00	4.5782+00	5.6511+00	3.4335+01	1.2137+00	1.0719+00
.0	1.0590+00	4.3317+00	5.3907+00	3.3597+01	1.4080+00	1.0576+00
.2	1.0483+00	4.1331+00	5.1814+00	3.2914+01	1.6036+00	1.0460+00
.4	1.0403+00	3.9736+00	5.0139+00	3.2273+01	1.8003+00	1.0367+00
.6	1.0349+00	3.8458+00	4.8807+00	3.1668+01	1.9980+00	1.0292+00
.8	1.0321+00	3.7437+00	4.7758+00	3.1090+01	2.1969+00	1.0232+00
1.0	1.0325+00	3.6623+00	4.6947+00	3.0533+01	2.3970+00	1.0184+00
1.2	1.0368+00	3.5976+00	4.6344+00	2.9992+01	2.5988+00	1.0146+00
1.4	1.0465+00	3.5466+00	4.5932+00	2.9462+01	2.8029+00	1.0115+00
1.6	1.0644+00	3.5070+00	4.5714+00	2.8937+01	3.0102+00	1.0091+00
1.8	1.0946+00	3.4771+00	4.5717+00	2.8410+01	3.2224+00	1.0071+00
2.0	1.1439+00	3.4562+00	4.6000+00	2.7875+01	3.4415+00	1.0055+00
2.2	1.2232+00	3.4442+00	4.6674+00	2.7319+01	3.6706+00	1.0042+00

T= 6700

LOG D	N2	N2+	N+	N++	N	E
-7.0	7.9700-06	2.1600-07	9.5500-02	1.5700-14	8.0900-01	9.5500-02
-6.8	1.3500-05	2.8600-07	7.8200-02	1.0100-14	8.4400-01	7.8200-02
-6.6	2.2500-05	3.7600-07	6.3700-02	6.4600-15	8.7300-01	6.3700-02
-6.4	3.7200-05	4.9000-07	5.1600-02	4.1300-15	8.9700-01	5.1600-02
-6.2	6.0900-05	6.3500-07	4.1700-02	2.6300-15	9.1700-01	4.1700-02
-6.0	9.9100-05	8.1700-07	3.3500-02	1.6800-15	9.3300-01	3.3500-02
-5.8	1.6000-04	1.0500-06	2.6900-02	1.0700-15	9.4600-01	2.6900-02
-5.6	2.5900-04	1.3400-06	2.1600-02	6.7600-16	9.5700-01	2.1600-02
-5.4	4.1500-04	1.7000-06	1.7200-02	4.2900-16	9.6500-01	1.7200-02
-5.2	6.6500-04	2.1600-06	1.3800-02	2.7100-16	9.7200-01	1.3800-02
-5.0	1.0600-03	2.7400-06	1.1000-02	1.7200-16	9.7700-01	1.1000-02
-4.8	1.6900-03	3.4600-06	8.7600-03	1.0900-16	9.8100-01	8.7600-03
-4.6	2.6900-03	4.3700-06	6.9700-03	6.8800-17	9.8300-01	6.9800-03
-4.4	4.2600-03	5.5000-06	5.5500-03	4.3600-17	9.8500-01	5.5600-03
-4.2	6.7200-03	6.9100-06	4.4200-03	2.7600-17	9.8400-01	4.4200-03
-4.0	1.0600-02	8.6500-06	3.5100-03	1.7500-17	9.8200-01	3.5200-03
-3.8	1.6500-02	1.0800-05	2.7900-03	1.1100-17	9.7800-01	2.8000-03
-3.6	2.5400-02	1.3300-05	2.2200-03	7.0600-18	9.7000-01	2.2300-03
-3.4	3.8800-02	1.6300-05	1.7600-03	4.5000-18	9.5800-01	1.7700-03
-3.2	5.8000-02	1.9700-05	1.3900-03	2.8800-18	9.3900-01	1.4100-03
-3.0	8.4700-02	2.3400-05	1.1000-03	1.8500-18	9.1300-01	1.1200-03
-2.8	1.2000-01	2.7200-05	8.6800-04	1.2000-18	8.7800-01	8.9500-04
-2.6	1.6500-01	3.0900-05	6.8100-04	7.7600-19	8.3400-01	7.1100-04
-2.4	2.1900-01	3.4100-05	5.3000-04	5.0400-19	7.8000-01	5.6400-04
-2.2	2.8000-01	3.6600-05	4.1000-04	3.2700-19	7.1900-01	4.4600-04
-2.0	3.4700-01	3.8300-05	3.1300-04	2.1100-19	6.5200-01	3.5200-04
-1.8	4.1700-01	3.8900-05	2.3700-04	1.3500-19	5.8200-01	2.7600-04
-1.6	4.8800-01	3.8600-05	1.7700-04	8.5600-20	5.1200-01	2.1500-04
-1.4	5.5600-01	3.7400-05	1.3000-04	5.3600-20	4.4400-01	1.6800-04
-1.2	6.2000-01	3.5300-05	9.4600-05	3.3000-20	3.8000-01	1.3000-04
-1.0	6.7800-01	3.2700-05	6.7700-05	2.0000-20	3.2100-01	1.0000-04
-.8	7.3100-01	2.9800-05	4.7800-05	1.1900-20	2.6900-01	7.7600-05
-.6	7.7700-01	2.6600-05	3.3300-05	7.0000-21	2.2300-01	5.9900-05
-.4	8.1600-01	2.3300-05	2.2900-05	4.0300-21	1.8400-01	4.6300-05
-.2	8.5000-01	2.0200-05	1.5600-05	2.2800-21	1.5000-01	3.5800-05
.0	8.7800-01	1.7300-05	1.0500-05	1.2700-21	1.2200-01	2.7800-05
.2	9.0100-01	1.4600-05	7.0100-06	6.9800-22	9.8900-02	2.1600-05
.4	9.2000-01	1.2200-05	4.6400-06	3.7800-22	7.9800-02	1.6900-05
.6	9.3600-01	1.0200-05	3.0500-06	2.0300-22	6.4100-02	1.3200-05
.8	9.4900-01	8.4100-06	1.9900-06	1.0700-22	5.1300-02	1.0400-05
1.0	9.5900-01	6.9200-06	1.3000-06	5.6200-23	4.1000-02	8.2200-06
1.2	9.6700-01	5.6800-06	8.4300-07	2.9100-23	3.2600-02	6.5200-06
1.4	9.7400-01	4.6700-06	5.4800-07	1.5000-23	2.5900-02	5.2100-06
1.6	9.8000-01	3.8500-06	3.5700-07	7.6000-24	2.0400-02	4.2100-06
1.8	9.8400-01	3.2100-06	2.3500-07	3.8000-24	1.6000-02	3.4400-06
2.0	9.8800-01	2.7200-06	1.5700-07	1.8700-24	1.2400-02	2.8700-06
2.2	9.9100-01	2.3700-06	1.0700-07	8.9100-25	9.4200-03	2.4800-06



T= 6700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.2111+00	2.5873+01	2.8084+01	8.3350+01	-5.2657+00	2.2112+00
-6.8	2.1696+00	2.4770+01	2.6939+01	8.1238+01	-5.0739+00	2.1697+00
-6.6	2.1360+00	2.3874+01	2.6010+01	7.9352+01	-4.8807+00	2.1360+00
-6.4	2.1087+00	2.3151+01	2.5260+01	7.7652+01	-4.6863+00	2.1088+00
-6.2	2.0868+00	2.2569+01	2.4655+01	7.6103+01	-4.4908+00	2.0868+00
-6.0	2.0692+00	2.2100+01	2.4169+01	7.4678+01	-4.2945+00	2.0692+00
-5.8	2.0550+00	2.1724+01	2.3779+01	7.3352+01	-4.0975+00	2.0550+00
-5.6	2.0435+00	2.1422+01	2.3465+01	7.2106+01	-3.8999+00	2.0435+00
-5.4	2.0342+00	2.1177+01	2.3212+01	7.0923+01	-3.7019+00	2.0342+00
-5.2	2.0265+00	2.0978+01	2.3005+01	6.9789+01	-3.5036+00	2.0266+00
-5.0	2.0200+00	2.0813+01	2.2833+01	6.8692+01	-3.3050+00	2.0200+00
-4.8	2.0142+00	2.0671+01	2.2685+01	6.7621+01	-3.1062+00	2.0142+00
-4.6	2.0086+00	2.0541+01	2.2549+01	6.6564+01	-2.9074+00	2.0086+00
-4.4	2.0026+00	2.0411+01	2.2413+01	6.5511+01	-2.7087+00	2.0026+00
-4.2	1.9954+00	2.0267+01	2.2262+01	6.4447+01	-2.5103+00	1.9954+00
-4.0	1.9860+00	2.0091+01	2.2077+01	6.3353+01	-2.3123+00	1.9860+00
-3.8	1.9730+00	1.9857+01	2.1830+01	6.2208+01	-2.1152+00	1.9730+00
-3.6	1.9546+00	1.9534+01	2.1489+01	6.0980+01	-1.9193+00	1.9546+00
-3.4	1.9286+00	1.9085+01	2.1014+01	5.9637+01	-1.7251+00	1.9286+00
-3.2	1.8928+00	1.8473+01	2.0366+01	5.8145+01	-1.5332+00	1.8929+00
-3.0	1.8457+00	1.7670+01	1.9516+01	5.6480+01	-1.3442+00	1.8457+00
-2.8	1.7868+00	1.6669+01	1.8456+01	5.4643+01	-1.1583+00	1.7868+00
-2.6	1.7177+00	1.5497+01	1.7215+01	5.2663+01	-9.7538-01	1.7177+00
-2.4	1.6415+00	1.4207+01	1.5848+01	5.0599+01	-7.9507-01	1.6415+00
-2.2	1.5625+00	1.2868+01	1.4431+01	4.8522+01	-6.1650-01	1.5625+00
-2.0	1.4847+00	1.1550+01	1.3035+01	4.6503+01	-4.3868-01	1.4847+00
-1.8	1.4114+00	1.0309+01	1.1720+01	4.4595+01	-2.6069-01	1.4113+00
-1.6	1.3447+00	9.1800+00	1.0525+01	4.2832+01	-8.1701-02	1.3446+00
-1.4	1.2858+00	8.1831+00	9.4689+00	4.1229+01	9.8853-02	1.2857+00
-1.2	1.2350+00	7.3224+00	8.5573+00	3.9788+01	2.8134-01	1.2349+00
-1.0	1.1919+00	6.5923+00	7.7842+00	3.8500+01	4.6591-01	1.1917+00
-.8	1.1559+00	5.9817+00	7.1376+00	3.7349+01	6.5259-01	1.1556+00
-.6	1.1262+00	5.4765+00	6.6026+00	3.6318+01	8.4128-01	1.1258+00
-.4	1.1019+00	5.0621+00	6.1640+00	3.5391+01	1.0318+00	1.1013+00
-.2	1.0823+00	4.7245+00	5.8067+00	3.4551+01	1.2240+00	1.0813+00
.0	1.0666+00	4.4508+00	5.5174+00	3.3782+01	1.4177+00	1.0651+00
.2	1.0544+00	4.2300+00	5.2844+00	3.3073+01	1.6127+00	1.0521+00
.4	1.0452+00	4.0523+00	5.0975+00	3.2412+01	1.8089+00	1.0416+00
.6	1.0388+00	3.9098+00	4.9486+00	3.1790+01	2.0062+00	1.0331+00
.8	1.0353+00	3.7958+00	4.8310+00	3.1198+01	2.2047+00	1.0264+00
1.0	1.0350+00	3.7048+00	4.7397+00	3.0631+01	2.4046+00	1.0209+00
1.2	1.0387+00	3.6324+00	4.6711+00	3.0081+01	2.6062+00	1.0166+00
1.4	1.0481+00	3.5752+00	4.6233+00	2.9544+01	2.8101+00	1.0131+00
1.6	1.0656+00	3.5306+00	4.5962+00	2.9013+01	3.0173+00	1.0103+00
1.8	1.0955+00	3.4967+00	4.5921+00	2.8482+01	3.2293+00	1.0081+00
2.0	1.1445+00	3.4725+00	4.6170+00	2.7943+01	3.4483+00	1.0062+00
2.2	1.2235+00	3.4579+00	4.6814+00	2.7384+01	3.6773+00	1.0047+00

T= 6800

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.8100-06	2.0100-07	1.1300-01	3.3400-14	7.7500-01	1.1300-01
-6.8	9.9500-06	2.6900-07	9.2700-02	2.1500-14	8.1500-01	9.2700-02
-6.6	1.6800-05	3.5700-07	7.5900-02	1.3800-14	8.4800-01	7.5900-02
-6.4	2.8000-05	4.6900-07	6.1700-02	8.8700-15	8.7700-01	6.1700-02
-6.2	4.6200-05	6.1000-07	5.0000-02	5.6700-15	9.0000-01	5.0000-02
-6.0	7.5600-05	7.8900-07	4.0300-02	3.6100-15	9.1900-01	4.0300-02
-5.8	1.2300-04	1.0100-06	3.2400-02	2.3000-15	9.3500-01	3.2400-02
-5.6	1.9900-04	1.3000-06	2.6000-02	1.4600-15	9.4800-01	2.6000-02
-5.4	3.2000-04	1.6600-06	2.0900-02	9.2700-16	9.5800-01	2.0900-02
-5.2	5.1400-04	2.1100-06	1.6700-02	5.8800-16	9.6600-01	1.6700-02
-5.0	8.2200-04	2.6800-06	1.3300-02	3.7200-16	9.7300-01	1.3300-02
-4.8	1.3100-03	3.3900-06	1.0600-02	2.3600-16	9.7700-01	1.0600-02
-4.6	2.0900-03	4.2800-06	8.4600-03	1.4900-16	9.8100-01	8.4700-03
-4.4	3.3100-03	5.4000-06	6.7400-03	9.4500-17	9.8300-01	6.7400-03
-4.2	5.2400-03	6.8000-06	5.3600-03	5.9800-17	9.8400-01	5.3700-03
-4.0	8.2600-03	8.5300-06	4.2700-03	3.7900-17	9.8300-01	4.2700-03
-3.8	1.2900-02	1.0700-05	3.3900-03	2.4000-17	9.8000-01	3.4000-03
-3.6	2.0100-02	1.3200-05	2.6900-03	1.5300-17	9.7400-01	2.7100-03
-3.4	3.0900-02	1.6300-05	2.1400-03	9.7200-18	9.6500-01	2.1600-03
-3.2	4.6700-02	1.9900-05	1.7000-03	6.2100-18	9.5000-01	1.7200-03
-3.0	6.9200-02	2.3800-05	1.3400-03	3.9800-18	9.2800-01	1.3700-03
-2.8	9.9800-02	2.8000-05	1.0600-03	2.5700-18	8.9800-01	1.0900-03
-2.6	1.4000-01	3.2200-05	8.3400-04	1.6600-18	8.5900-01	8.6600-04
-2.4	1.8900-01	3.6100-05	6.5200-04	1.0800-18	8.1000-01	6.8800-04
-2.2	2.4600-01	3.9400-05	5.0600-04	6.9900-19	7.5300-01	5.4500-04
-2.0	3.1100-01	4.1700-05	3.8900-04	4.5200-19	6.8900-01	4.3100-04
-1.8	3.7900-01	4.3000-05	2.9600-04	2.9100-19	6.2000-01	3.3900-04
-1.6	4.5000-01	4.3200-05	2.2200-04	1.8500-19	5.5000-01	2.6600-04
-1.4	5.1900-01	4.2400-05	1.6500-04	1.1600-19	4.8000-01	2.0700-04
-1.2	5.8600-01	4.0500-05	1.2000-04	7.2300-20	4.1400-01	1.6100-04
-1.0	6.4700-01	3.7900-05	8.6800-05	4.4200-20	3.5200-01	1.2500-04
-.8	7.0300-01	3.4800-05	6.1700-05	2.6500-20	2.9700-01	9.6500-05
-.6	7.5300-01	3.1300-05	4.3300-05	1.5700-20	2.4700-01	7.4600-05
-.4	7.9500-01	2.7700-05	3.0000-05	9.0900-21	2.0400-01	5.7700-05
-.2	8.3200-01	2.4200-05	2.0500-05	5.1800-21	1.6800-01	4.4700-05
.0	8.6300-01	2.0800-05	1.3900-05	2.9100-21	1.3700-01	3.4700-05
.2	8.8900-01	1.7700-05	9.2800-06	1.6100-21	1.1100-01	2.7000-05
.4	9.1000-01	1.4900-05	6.1600-06	8.7600-22	8.9600-02	2.1000-05
.6	9.2800-01	1.2400-05	4.0600-06	4.7100-22	7.2100-02	1.6500-05
.8	9.4200-01	1.0300-05	2.6600-06	2.5000-22	5.7800-02	1.2900-05
1.0	9.5400-01	8.4800-06	1.7400-06	1.3200-22	4.6200-02	1.0200-05
1.2	9.6300-01	6.9800-06	1.1300-06	6.8600-23	3.6800-02	8.1100-06
1.4	9.7100-01	5.7500-06	7.3600-07	3.5300-23	2.9200-02	6.4800-06
1.6	9.7700-01	4.7500-06	4.8100-07	1.8000-23	2.3100-02	5.2300-06
1.8	9.8200-01	3.9600-06	3.1600-07	9.0300-24	1.8100-02	4.2800-06
2.0	9.8600-01	3.3600-06	2.1100-07	4.4500-24	1.4000-02	3.5700-06
2.2	9.8900-01	2.9300-06	1.4400-07	2.1300-24	1.0700-02	3.0800-06

T= 6800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.2537+00	2.6676+01	2.8930+01	8.4542+01	-5.2510+00	2.2537+00
-6.8	2.2043+00	2.5383+01	2.7587+01	8.2223+01	-5.0606+00	2.2044+00
-6.6	2.1641+00	2.4329+01	2.6493+01	8.0163+01	-4.8686+00	2.1641+00
-6.4	2.1315+00	2.3474+01	2.5605+01	7.8319+01	-4.6752+00	2.1315+00
-6.2	2.1051+00	2.2783+01	2.4889+01	7.6654+01	-4.4806+00	2.1051+00
-6.0	2.0839+00	2.2228+01	2.4311+01	7.5134+01	-4.2850+00	2.0839+00
-5.8	2.0668+00	2.1781+01	2.3847+01	7.3731+01	-4.0886+00	2.0668+00
-5.6	2.0530+00	2.1422+01	2.3475+01	7.2424+01	-3.8915+00	2.0530+00
-5.4	2.0419+00	2.1132+01	2.3174+01	7.1192+01	-3.6939+00	2.0419+00
-5.2	2.0328+00	2.0898+01	2.2931+01	7.0019+01	-3.4958+00	2.0328+00
-5.0	2.0253+00	2.0706+01	2.2732+01	6.8893+01	-3.2974+00	2.0253+00
-4.8	2.0188+00	2.0545+01	2.2564+01	6.7801+01	-3.0988+00	2.0188+00
-4.6	2.0128+00	2.0404+01	2.2417+01	6.6731+01	-2.9001+00	2.0128+00
-4.4	2.0069+00	2.0271+01	2.2278+01	6.5673+01	-2.7014+00	2.0069+00
-4.2	2.0002+00	2.0134+01	2.2134+01	6.4613+01	-2.5028+00	2.0002+00
-4.0	1.9920+00	1.9976+01	2.1968+01	6.3536+01	-2.3046+00	1.9920+00
-3.8	1.9811+00	1.9776+01	2.1757+01	6.2421+01	-2.1070+00	1.9811+00
-3.6	1.9657+00	1.9507+01	2.1473+01	6.1243+01	-1.9104+00	1.9657+00
-3.4	1.9441+00	1.9135+01	2.1079+01	5.9970+01	-1.7152+00	1.9441+00
-3.2	1.9138+00	1.8621+01	2.0535+01	5.8568+01	-1.5220+00	1.9138+00
-3.0	1.8729+00	1.7932+01	1.9805+01	5.7007+01	-1.3314+00	1.8729+00
-2.8	1.8202+00	1.7049+01	1.8869+01	5.5272+01	-1.1438+00	1.8202+00
-2.6	1.7563+00	1.5979+01	1.7735+01	5.3378+01	-9.5929-01	1.7563+00
-2.4	1.6835+00	1.4761+01	1.6445+01	5.1368+01	-7.7768-01	1.6835+00
-2.2	1.6055+00	1.3458+01	1.5063+01	4.9307+01	-5.9829-01	1.6055+00
-2.0	1.5265+00	1.2139+01	1.3665+01	4.7267+01	-4.2019-01	1.5265+00
-1.8	1.4504+00	1.0868+01	1.2318+01	4.5311+01	-2.4240-01	1.4504+00
-1.6	1.3799+00	9.6911+00	1.1071+01	4.3483+01	-6.4042-02	1.3799+00
-1.4	1.3167+00	8.6363+00	9.9530+00	4.1807+01	1.1560-01	1.3167+00
-1.2	1.2615+00	7.7149+00	8.9765+00	4.0293+01	2.9701-01	1.2614+00
-1.0	1.2143+00	6.9263+00	8.1406+00	3.8934+01	4.8045-01	1.2142+00
-.8	1.1746+00	6.2620+00	7.4366+00	3.7720+01	6.6600-01	1.1743+00
-.6	1.1416+00	5.7093+00	6.8509+00	3.6634+01	8.5363-01	1.1412+00
-.4	1.1145+00	5.2540+00	6.3685+00	3.5660+01	1.0432+00	1.1139+00
-.2	1.0926+00	4.8817+00	5.9742+00	3.4780+01	1.2346+00	1.0916+00
.0	1.0749+00	4.5792+00	5.6541+00	3.3978+01	1.4275+00	1.0735+00
.2	1.0611+00	4.3345+00	5.3955+00	3.3242+01	1.6219+00	1.0588+00
.4	1.0506+00	4.1373+00	5.1878+00	3.2558+01	1.8175+00	1.0469+00
.6	1.0431+00	3.9789+00	5.0220+00	3.1918+01	2.0144+00	1.0374+00
.8	1.0387+00	3.8520+00	4.8907+00	3.1312+01	2.2126+00	1.0298+00
1.0	1.0377+00	3.7505+00	4.7883+00	3.0733+01	2.4122+00	1.0237+00
1.2	1.0409+00	3.6698+00	4.7107+00	3.0173+01	2.6135+00	1.0188+00
1.4	1.0498+00	3.6059+00	4.6557+00	2.9628+01	2.8172+00	1.0148+00
1.6	1.0669+00	3.5558+00	4.6227+00	2.9091+01	3.0242+00	1.0117+00
1.8	1.0965+00	3.5175+00	4.6140+00	2.8555+01	3.2361+00	1.0091+00
2.0	1.1451+00	3.4898+00	4.6350+00	2.8012+01	3.4550+00	1.0071+00
2.2	1.2238+00	3.4724+00	4.6962+00	2.7451+01	3.6838+00	1.0054+00

T= 6900

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.2200-06	1.8500-07	1.3100-01	6.9400-14	7.3700-01	1.3100-01
-6.8	7.3400-06	2.5200-07	1.0900-01	4.4900-14	7.8200-01	1.0900-01
-6.6	1.2500-05	3.3700-07	8.9600-02	2.9000-14	8.2100-01	8.9600-02
-6.4	2.1100-05	4.4600-07	7.3200-02	1.8600-14	8.5400-01	7.3200-02
-6.2	3.5100-05	5.8400-07	5.9500-02	1.1900-14	8.8100-01	5.9500-02
-6.0	5.7800-05	7.6000-07	4.8200-02	7.6100-15	9.0400-01	4.8200-02
-5.8	9.4500-05	9.8100-07	3.8800-02	4.8500-15	9.2200-01	3.8800-02
-5.6	1.5400-04	1.2600-06	3.1200-02	3.0900-15	9.3700-01	3.1200-02
-5.4	2.4800-04	1.6100-06	2.5000-02	1.9600-15	9.5000-01	2.5100-02
-5.2	3.9900-04	2.0600-06	2.0100-02	1.2400-15	9.5900-01	2.0100-02
-5.0	6.4100-04	2.6200-06	1.6000-02	7.8900-16	9.6700-01	1.6000-02
-4.8	1.0200-03	3.3200-06	1.2800-02	5.0000-16	9.7300-01	1.2800-02
-4.6	1.6300-03	4.2000-06	1.0200-02	3.1600-16	9.7800-01	1.0200-02
-4.4	2.6000-03	5.3100-06	8.1300-03	2.0000-16	9.8100-01	8.1400-03
-4.2	4.1200-03	6.6900-06	6.4800-03	1.2700-16	9.8300-01	6.4800-03
-4.0	6.5100-03	8.4100-06	5.1500-03	8.0300-17	9.8300-01	5.1600-03
-3.8	1.0200-02	1.0500-05	4.1000-03	5.0900-17	9.8200-01	4.1100-03
-3.6	1.6000-02	1.3100-05	3.2600-03	3.2300-17	9.7700-01	3.2700-03
-3.4	2.4700-02	1.6200-05	2.5900-03	2.0500-17	9.7000-01	2.6000-03
-3.2	3.7700-02	1.9900-05	2.0500-03	1.3100-17	9.5800-01	2.0700-03
-3.0	5.6500-02	2.4100-05	1.6300-03	8.3900-18	9.4000-01	1.6500-03
-2.8	8.2700-02	2.8700-05	1.2900-03	5.3900-18	9.1500-01	1.3100-03
-2.6	1.1800-01	3.3400-05	1.0100-03	3.4800-18	8.8000-01	1.0500-03
-2.4	1.6200-01	3.7900-05	7.9500-04	2.2500-18	8.3700-01	8.3300-04
-2.2	2.1500-01	4.1900-05	6.1900-04	1.4600-18	7.8400-01	6.6100-04
-2.0	2.7600-01	4.5100-05	4.7900-04	9.4700-19	7.2300-01	5.2400-04
-1.8	3.4300-01	4.7100-05	3.6600-04	6.1100-19	6.5600-01	4.1300-04
-1.6	4.1300-01	4.8000-05	2.7700-04	3.9100-19	5.8700-01	3.2500-04
-1.4	4.8300-01	4.7600-05	2.0600-04	2.4700-19	5.1700-01	2.5400-04
-1.2	5.5100-01	4.6000-05	1.5200-04	1.5400-19	4.4800-01	1.9800-04
-1.0	6.1600-01	4.3500-05	1.1000-04	9.5000-20	3.8400-01	1.5400-04
-.8	6.7500-01	4.0300-05	7.8800-05	5.7500-20	3.2500-01	1.1900-04
-.6	7.2700-01	3.6600-05	5.5600-05	3.4200-20	2.7200-01	9.2200-05
-.4	7.7400-01	3.2700-05	3.8700-05	2.0000-20	2.2600-01	7.1400-05
-.2	8.1400-01	2.8700-05	2.6600-05	1.1500-20	1.8600-01	5.5300-05
.0	8.4800-01	2.4800-05	1.8100-05	6.4800-21	1.5200-01	4.2900-05
.2	8.7600-01	2.1200-05	1.2200-05	3.6000-21	1.2400-01	3.3400-05
.4	9.0000-01	1.7900-05	8.1100-06	1.9800-21	1.0000-01	2.6000-05
.6	9.1900-01	1.5000-05	5.3700-06	1.0700-21	8.0800-02	2.0400-05
.8	9.3500-01	1.2500-05	3.5300-06	5.7100-22	6.4900-02	1.6000-05
1.0	9.4800-01	1.0300-05	2.3100-06	3.0100-22	5.1900-02	1.2600-05
1.2	9.5900-01	8.5200-06	1.5000-06	1.5700-22	4.1400-02	1.0000-05
1.4	9.6700-01	7.0300-06	9.8100-07	8.1400-23	3.2900-02	8.0100-06
1.6	9.7400-01	5.8200-06	6.4100-07	4.1600-23	2.6000-02	6.4600-06
1.8	9.8000-01	4.8600-06	4.2200-07	2.0900-23	2.0400-02	5.2800-06
2.0	9.8400-01	4.1300-06	2.8100-07	1.0300-23	1.5800-02	4.4100-06
2.2	9.8800-01	3.6100-06	1.9100-07	4.9600-24	1.2000-02	3.8000-06

T= 6900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.3024+00	2.7619+01	2.9921+01	8.5881+01	-5.2354+00	2.3025+00
-6.8	2.2443+00	2.6117+01	2.8361+01	8.3333+01	-5.0465+00	2.2443+00
-6.6	2.1967+00	2.4886+01	2.7083+01	8.1080+01	-4.8558+00	2.1967+00
-6.4	2.1579+00	2.3883+01	2.6041+01	7.9075+01	-4.6635+00	2.1579+00
-6.2	2.1264+00	2.3071+01	2.5198+01	7.7276+01	-4.4699+00	2.1265+00
-6.0	2.1010+00	2.2416+01	2.4517+01	7.5648+01	-4.2751+00	2.1011+00
-5.8	2.0806+00	2.1888+01	2.3969+01	7.4157+01	-4.0794+00	2.0806+00
-5.6	2.0641+00	2.1464+01	2.3528+01	7.2779+01	-3.8828+00	2.0641+00
-5.4	2.0508+00	2.1122+01	2.3173+01	7.1490+01	-3.6856+00	2.0509+00
-5.2	2.0401+00	2.0847+01	2.2887+01	7.0273+01	-3.4879+00	2.0401+00
-5.0	2.0312+00	2.0623+01	2.2655+01	6.9112+01	-3.2898+00	2.0313+00
-4.8	2.0238+00	2.0438+01	2.2462+01	6.7993+01	-3.0914+00	2.0238+00
-4.6	2.0173+00	2.0281+01	2.2298+01	6.6905+01	-2.8928+00	2.0173+00
-4.4	2.0111+00	2.0140+01	2.2151+01	6.5837+01	-2.6941+00	2.0111+00
-4.2	2.0047+00	2.0003+01	2.2008+01	6.4775+01	-2.4955+00	2.0047+00
-4.0	1.9973+00	1.9856+01	2.1853+01	6.3706+01	-2.2971+00	1.9973+00
-3.8	1.9878+00	1.9680+01	2.1667+01	6.2612+01	-2.0992+00	1.9878+00
-3.6	1.9749+00	1.9451+01	2.1426+01	6.1471+01	-1.9020+00	1.9749+00
-3.4	1.9567+00	1.9139+01	2.1096+01	6.0254+01	-1.7060+00	1.9567+00
-3.2	1.9311+00	1.8709+01	2.0640+01	5.8928+01	-1.5117+00	1.9311+00
-3.0	1.8960+00	1.8122+01	2.0018+01	5.7459+01	-1.3197+00	1.8960+00
-2.8	1.8495+00	1.7351+01	1.9200+01	5.5825+01	-1.1305+00	1.8495+00
-2.6	1.7913+00	1.6388+01	1.8180+01	5.4024+01	-9.4439-01	1.7913+00
-2.4	1.7227+00	1.5256+01	1.6979+01	5.2082+01	-7.6135-01	1.7227+00
-2.2	1.6468+00	1.4006+01	1.5653+01	5.0056+01	-5.8090-01	1.6468+00
-2.0	1.5678+00	1.2704+01	1.4272+01	4.8014+01	-4.0225-01	1.5678+00
-1.8	1.4898+00	1.1419+01	1.2908+01	4.6024+01	-2.2442-01	1.4898+00
-1.6	1.4161+00	1.0204+01	1.1620+01	4.4141+01	-4.6467-02	1.4160+00
-1.4	1.3489+00	9.0984+00	1.0447+01	4.2399+01	1.3243-01	1.3488+00
-1.2	1.2895+00	8.1200+00	9.4095+00	4.0813+01	3.1287-01	1.2894+00
-1.0	1.2382+00	7.2741+00	8.5122+00	3.9385+01	4.9523-01	1.2380+00
-.8	1.1946+00	6.5559+00	7.7505+00	3.8107+01	6.7967-01	1.1943+00
-.6	1.1582+00	5.9547+00	7.1129+00	3.6965+01	8.6623-01	1.1578+00
-.4	1.1282+00	5.4570+00	6.5852+00	3.5941+01	1.0548+00	1.1276+00
-.2	1.1037+00	5.0485+00	6.1522+00	3.5019+01	1.2453+00	1.1027+00
.0	1.0840+00	4.7156+00	5.7996+00	3.4182+01	1.4375+00	1.0825+00
.2	1.0684+00	4.4457+00	5.5141+00	3.3417+01	1.6312+00	1.0661+00
.4	1.0564+00	4.2278+00	5.2842+00	3.2710+01	1.8263+00	1.0528+00
.6	1.0478+00	4.0525+00	5.1003+00	3.2050+01	2.0227+00	1.0421+00
.8	1.0425+00	3.9118+00	4.9543+00	3.1428+01	2.2205+00	1.0336+00
1.0	1.0408+00	3.7993+00	4.8400+00	3.0836+01	2.4198+00	1.0267+00
1.2	1.0433+00	3.7095+00	4.7529+00	3.0267+01	2.6209+00	1.0212+00
1.4	1.0517+00	3.6384+00	4.6901+00	2.9713+01	2.8243+00	1.0167+00
1.6	1.0684+00	3.5825+00	4.6509+00	2.9170+01	3.0312+00	1.0132+00
1.8	1.0976+00	3.5395+00	4.6371+00	2.8628+01	3.2429+00	1.0103+00
2.0	1.1459+00	3.5080+00	4.6539+00	2.8081+01	3.4616+00	1.0080+00
2.2	1.2242+00	3.4875+00	4.7118+00	2.7516+01	3.6903+00	1.0061+00

T= 7000

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.0500-06	1.7000-07	1.5200-01	1.4100-13	6.9600-01	1.5200-01
-6.8	5.3900-06	2.3300-07	1.2700-01	9.1600-14	7.4700-01	1.2700-01
-6.6	9.3400-06	3.1600-07	1.0500-01	5.9200-14	7.9000-01	1.0500-01
-6.4	1.5900-05	4.2200-07	8.6100-02	3.8200-14	8.2800-01	8.6100-02
-6.2	2.6700-05	5.5800-07	7.0300-02	2.4500-14	8.5900-01	7.0300-02
-6.0	4.4300-05	7.2900-07	5.7100-02	1.5700-14	8.8600-01	5.7100-02
-5.8	7.2900-05	9.4700-07	4.6200-02	1.0000-14	9.0800-01	4.6200-02
-5.6	1.1900-04	1.2200-06	3.7200-02	6.3800-15	9.2500-01	3.7200-02
-5.4	1.9300-04	1.5700-06	2.9900-02	4.0600-15	9.4000-01	2.9900-02
-5.2	3.1200-04	2.0100-06	2.4000-02	2.5800-15	9.5200-01	2.4000-02
-5.0	5.0100-04	2.5600-06	1.9200-02	1.6300-15	9.6100-01	1.9200-02
-4.8	8.0300-04	3.2500-06	1.5300-02	1.0400-15	9.6900-01	1.5300-02
-4.6	1.2800-03	4.1200-06	1.2200-02	6.5600-16	9.7400-01	1.2200-02
-4.4	2.0500-03	5.2100-06	9.7600-03	4.1600-16	9.7800-01	9.7600-03
-4.2	3.2500-03	6.5800-06	7.7800-03	2.6300-16	9.8100-01	7.7800-03
-4.0	5.1500-03	8.2800-06	6.1900-03	1.6700-16	9.8200-01	6.2000-03
-3.8	8.1100-03	1.0400-05	4.9300-03	1.0600-16	9.8200-01	4.9400-03
-3.6	1.2700-02	1.3000-05	3.9200-03	6.7000-17	9.7900-01	3.9300-03
-3.4	1.9800-02	1.6100-05	3.1100-03	4.2600-17	9.7400-01	3.1300-03
-3.2	3.0400-02	1.9900-05	2.4700-03	2.7100-17	9.6500-01	2.4900-03
-3.0	4.6000-02	2.4300-05	1.9600-03	1.7300-17	9.5000-01	1.9800-03
-2.8	6.8200-02	2.9100-05	1.5500-03	1.1100-17	9.2900-01	1.5800-03
-2.6	9.8500-02	3.4300-05	1.2200-03	7.1500-18	8.9900-01	1.2600-03
-2.4	1.3800-01	3.9400-05	9.6300-04	4.6300-18	8.6000-01	1.0000-03
-2.2	1.8700-01	4.4200-05	7.5300-04	3.0000-18	8.1200-01	7.9700-04
-2.0	2.4400-01	4.8200-05	5.8400-04	1.9400-18	7.5500-01	6.3200-04
-1.8	3.0800-01	5.1100-05	4.4900-04	1.2600-18	6.9100-01	5.0000-04
-1.6	3.7700-01	5.2700-05	3.4100-04	8.0600-19	6.2300-01	3.9400-04
-1.4	4.4700-01	5.3000-05	2.5600-04	5.1200-19	5.5200-01	3.0900-04
-1.2	5.1700-01	5.1900-05	1.9000-04	3.2200-19	4.8300-01	2.4200-04
-1.0	5.8300-01	4.9600-05	1.3900-04	1.9900-19	4.1600-01	1.8800-04
-.8	6.4500-01	4.6400-05	9.9800-05	1.2100-19	3.5500-01	1.4600-04
-.6	7.0100-01	4.2500-05	7.0800-05	7.2700-20	2.9900-01	1.1300-04
-.4	7.5100-01	3.8200-05	4.9600-05	4.2800-20	2.4900-01	8.7800-05
-.2	7.9400-01	3.3800-05	3.4300-05	2.4800-20	2.0600-01	6.8100-05
.0	8.3100-01	2.9400-05	2.3400-05	1.4100-20	1.6900-01	5.2800-05
.2	8.6200-01	2.5300-05	1.5800-05	7.8800-21	1.3800-01	4.1100-05
.4	8.8800-01	2.1500-05	1.0600-05	4.3500-21	1.1200-01	3.2100-05
.6	9.1000-01	1.8100-05	7.0300-06	2.3600-21	9.0200-02	2.5100-05
.8	9.2700-01	1.5100-05	4.6300-06	1.2700-21	7.2600-02	1.9700-05
1.0	9.4200-01	1.2500-05	3.0400-06	6.7300-22	5.8200-02	1.5500-05
1.2	9.5400-01	1.0300-05	1.9800-06	3.5300-22	4.6400-02	1.2300-05
1.4	9.6300-01	8.5500-06	1.3000-06	1.8300-22	3.6900-02	9.8500-06
1.6	9.7100-01	7.0900-06	8.4800-07	9.3800-23	2.9100-02	7.9400-06
1.8	9.7700-01	5.9400-06	5.5800-07	4.7400-23	2.2900-02	6.4900-06
2.0	9.8200-01	5.0500-06	3.7200-07	2.3500-23	1.7700-02	5.4200-06
2.2	9.8600-01	4.4200-06	2.5300-07	1.1300-23	1.3500-02	4.6700-06

T= 7000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.3578+00	2.8705+01	3.1063+01	8.7372+01	-5.2188+00	2.3578+00
-6.8	2.2900+00	2.6977+01	2.9267+01	8.4575+01	-5.0315+00	2.2901+00
-6.6	2.2341+00	2.5552+01	2.7787+01	8.2109+01	-4.8422+00	2.2341+00
-6.4	2.1883+00	2.4386+01	2.6575+01	7.9925+01	-4.6512+00	2.1884+00
-6.2	2.1511+00	2.3438+01	2.5589+01	7.7977+01	-4.4586+00	2.1511+00
-6.0	2.1209+00	2.2670+01	2.4790+01	7.6226+01	-4.2648+00	2.1210+00
-5.8	2.0966+00	2.2050+01	2.4147+01	7.4635+01	-4.0698+00	2.0966+00
-5.6	2.0770+00	2.1551+01	2.3628+01	7.3176+01	-3.8739+00	2.0770+00
-5.4	2.0612+00	2.1150+01	2.3211+01	7.1822+01	-3.6772+00	2.0612+00
-5.2	2.0484+00	2.0827+01	2.2876+01	7.0553+01	-3.4799+00	2.0485+00
-5.0	2.0381+00	2.0566+01	2.2604+01	6.9351+01	-3.2821+00	2.0381+00
-4.8	2.0295+00	2.0353+01	2.2382+01	6.8201+01	-3.0839+00	2.0295+00
-4.6	2.0221+00	2.0175+01	2.2197+01	6.7090+01	-2.8855+00	2.0222+00
-4.4	2.0155+00	2.0020+01	2.2036+01	6.6006+01	-2.6869+00	2.0155+00
-4.2	2.0091+00	1.9878+01	2.1887+01	6.4937+01	-2.4883+00	2.0091+00
-4.0	2.0021+00	1.9735+01	2.1737+01	6.3870+01	-2.2898+00	2.0021+00
-3.8	1.9936+00	1.9574+01	2.1568+01	6.2789+01	-2.0917+00	1.9936+00
-3.6	1.9825+00	1.9375+01	2.1358+01	6.1674+01	-1.8941+00	1.9825+00
-3.4	1.9672+00	1.9111+01	2.1078+01	6.0501+01	-1.6975+00	1.9672+00
-3.2	1.9456+00	1.8749+01	2.0695+01	5.9237+01	-1.5022+00	1.9456+00
-3.0	1.9156+00	1.8252+01	2.0167+01	5.7851+01	-1.3090+00	1.9156+00
-2.8	1.8750+00	1.7585+01	1.9460+01	5.6311+01	-1.1183+00	1.8750+00
-2.6	1.8227+00	1.6730+01	1.8553+01	5.4604+01	-9.3060-01	1.8227+00
-2.4	1.7591+00	1.5694+01	1.7453+01	5.2743+01	-7.4602-01	1.7591+00
-2.2	1.6864+00	1.4512+01	1.6198+01	5.0767+01	-5.6433-01	1.6864+00
-2.0	1.6085+00	1.3244+01	1.4853+01	4.8741+01	-3.8488-01	1.6085+00
-1.8	1.5295+00	1.1960+01	1.3489+01	4.6734+01	-2.0676-01	1.5294+00
-1.6	1.4532+00	1.0720+01	1.2173+01	4.4807+01	-2.8985-02	1.4531+00
-1.4	1.3824+00	9.5702+00	1.0953+01	4.3005+01	1.4934-01	1.3823+00
-1.2	1.3190+00	8.5389+00	9.8579+00	4.1352+01	3.2893-01	1.3188+00
-1.0	1.2635+00	7.6374+00	8.9009+00	3.9856+01	5.1027-01	1.2633+00
-.8	1.2160+00	6.8654+00	8.0814+00	3.8514+01	6.9364-01	1.2158+00
-.6	1.1761+00	6.2146+00	7.3907+00	3.7313+01	8.7914-01	1.1757+00
-.4	1.1429+00	5.6730+00	6.8160+00	3.6237+01	1.0667+00	1.1423+00
-.2	1.1158+00	5.2267+00	6.3425+00	3.5271+01	1.2563+00	1.1148+00
.0	1.0938+00	4.8617+00	5.9555+00	3.4397+01	1.4476+00	1.0923+00
.2	1.0764+00	4.5650+00	5.6413+00	3.3601+01	1.6407+00	1.0740+00
.4	1.0629+00	4.3249+00	5.3878+00	3.2869+01	1.8352+00	1.0592+00
.6	1.0530+00	4.1315+00	5.1845+00	3.2188+01	2.0311+00	1.0473+00
.8	1.0467+00	3.9760+00	5.0227+00	3.1549+01	2.2285+00	1.0377+00
1.0	1.0441+00	3.8515+00	4.8956+00	3.0944+01	2.4274+00	1.0300+00
1.2	1.0460+00	3.7521+00	4.7981+00	3.0363+01	2.6282+00	1.0238+00
1.4	1.0538+00	3.6732+00	4.7270+00	2.9801+01	2.8315+00	1.0188+00
1.6	1.0700+00	3.6110+00	4.6810+00	2.9250+01	3.0381+00	1.0148+00
1.8	1.0988+00	3.5629+00	4.6617+00	2.8703+01	3.2496+00	1.0116+00
2.0	1.1468+00	3.5273+00	4.6741+00	2.8152+01	3.4682+00	1.0089+00
2.2	1.2248+00	3.5035+00	4.7282+00	2.7583+01	3.6967+00	1.0068+00

T= 7100

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.1900-06	1.5400-07	1.7400-01	2.8000-13	6.5300-01	1.7400-01
-6.8	3.9400-06	2.1500-07	1.4600-01	1.8200-13	7.0800-01	1.4600-01
-6.6	6.9400-06	2.9500-07	1.2200-01	1.1800-13	7.5700-01	1.2200-01
-6.4	1.2000-05	3.9800-07	1.0000-01	7.6500-14	7.9900-01	1.0000-01
-6.2	2.0300-05	5.3000-07	8.2400-02	4.9300-14	8.3500-01	8.2400-02
-6.0	3.4000-05	6.9800-07	6.7200-02	3.1600-14	8.6600-01	6.7200-02
-5.8	5.6400-05	9.1100-07	5.4500-02	2.0200-14	8.9100-01	5.4500-02
-5.6	9.2600-05	1.1800-06	4.4000-02	1.2900-14	9.1200-01	4.4000-02
-5.4	1.5100-04	1.5200-06	3.5500-02	8.2200-15	9.2900-01	3.5500-02
-5.2	2.4500-04	1.9500-06	2.8500-02	5.2200-15	9.4300-01	2.8500-02
-5.0	3.9400-04	2.5000-06	2.2800-02	3.3200-15	9.5400-01	2.2800-02
-4.8	6.3400-04	3.1800-06	1.8300-02	2.1000-15	9.6300-01	1.8300-02
-4.6	1.0100-03	4.0400-06	1.4600-02	1.3300-15	9.7000-01	1.4600-02
-4.4	1.6200-03	5.1100-06	1.1600-02	8.4500-16	9.7500-01	1.1700-02
-4.2	2.5800-03	6.4700-06	9.2800-03	5.3500-16	9.7900-01	9.2900-03
-4.0	4.0900-03	8.1500-06	7.4000-03	3.3900-16	9.8100-01	7.4000-03
-3.8	6.4700-03	1.0300-05	5.8900-03	2.1500-16	9.8200-01	5.9000-03
-3.6	1.0200-02	1.2800-05	4.6800-03	1.3600-16	9.8000-01	4.7000-03
-3.4	1.5900-02	1.6000-05	3.7200-03	8.6400-17	9.7700-01	3.7400-03
-3.2	2.4600-02	1.9800-05	2.9600-03	5.5000-17	9.6900-01	2.9800-03
-3.0	3.7500-02	2.4300-05	2.3500-03	3.5100-17	9.5800-01	2.3700-03
-2.8	5.6300-02	2.9400-05	1.8600-03	2.2400-17	9.4000-01	1.8900-03
-2.6	8.2400-02	3.5000-05	1.4700-03	1.4400-17	9.1500-01	1.5100-03
-2.4	1.1700-01	4.0700-05	1.1600-03	9.3100-18	8.8000-01	1.2000-03
-2.2	1.6100-01	4.6300-05	9.0800-04	6.0300-18	8.3700-01	9.5500-04
-2.0	2.1500-01	5.1200-05	7.0700-04	3.9100-18	7.8400-01	7.5900-04
-1.8	2.7600-01	5.5000-05	5.4600-04	2.5300-18	7.2300-01	6.0100-04
-1.6	3.4200-01	5.7500-05	4.1700-04	1.6300-18	6.5700-01	4.7500-04
-1.4	4.1200-01	5.8500-05	3.1500-04	1.0400-18	5.8700-01	3.7400-04
-1.2	4.8200-01	5.7900-05	2.3500-04	6.5600-19	5.1700-01	2.9300-04
-1.0	5.5100-01	5.6000-05	1.7300-04	4.0900-19	4.4900-01	2.2900-04
-.8	6.1500-01	5.2900-05	1.2500-04	2.5100-19	3.8500-01	1.7800-04
-.6	6.7400-01	4.8900-05	8.9300-05	1.5100-19	3.2600-01	1.3800-04
-.4	7.2700-01	4.4300-05	6.2900-05	8.9600-20	2.7300-01	1.0700-04
-.2	7.7300-01	3.9500-05	4.3700-05	5.2200-20	2.2600-01	8.3200-05
.0	8.1300-01	3.4600-05	3.0000-05	2.9900-20	1.8600-01	6.4600-05
.2	8.4700-01	2.9900-05	2.0400-05	1.6800-20	1.5200-01	5.0300-05
.4	8.7600-01	2.5500-05	1.3700-05	9.3400-21	1.2400-01	3.9200-05
.6	9.0000-01	2.1600-05	9.1200-06	5.1000-21	1.0000-01	3.0700-05
.8	9.1900-01	1.8100-05	6.0300-06	2.7500-21	8.0800-02	2.4100-05
1.0	9.3500-01	1.5000-05	3.9600-06	1.4700-21	6.4800-02	1.9000-05
1.2	9.4800-01	1.2500-05	2.6000-06	7.7300-22	5.1800-02	1.5100-05
1.4	9.5900-01	1.0300-05	1.7000-06	4.0200-22	4.1200-02	1.2000-05
1.6	9.6700-01	8.5900-06	1.1100-06	2.0700-22	3.2600-02	9.7100-06
1.8	9.7400-01	7.2000-06	7.3300-07	1.0500-22	2.5600-02	7.9300-06
2.0	9.8000-01	6.1300-06	4.8800-07	5.2100-23	1.9800-02	6.6200-06
2.2	9.8500-01	5.3800-06	3.3200-07	2.5200-23	1.5100-02	5.7100-06



T= 7100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.4199+00	2.9933+01	3.2353+01	8.9016+01	-5.2013+00	2.4200+00
-6.8	2.3417+00	2.7967+01	3.0309+01	8.5954+01	-5.0156+00	2.3418+00
-6.6	2.2767+00	2.6333+01	2.8609+01	8.3257+01	-4.8278+00	2.2768+00
-6.4	2.2232+00	2.4987+01	2.7210+01	8.0875+01	-4.6382+00	2.2232+00
-6.2	2.1794+00	2.3887+01	2.6067+01	7.8762+01	-4.4468+00	2.1795+00
-6.0	2.1439+00	2.2994+01	2.5137+01	7.6873+01	-4.2539+00	2.1439+00
-5.8	2.1151+00	2.2271+01	2.4386+01	7.5170+01	-4.0598+00	2.1151+00
-5.6	2.0919+00	2.1688+01	2.3780+01	7.3619+01	-3.8646+00	2.0919+00
-5.4	2.0732+00	2.1219+01	2.3292+01	7.2191+01	-3.6685+00	2.0732+00
-5.2	2.0581+00	2.0841+01	2.2899+01	7.0862+01	-3.4717+00	2.0581+00
-5.0	2.0459+00	2.0537+01	2.2583+01	6.9613+01	-3.2743+00	2.0459+00
-4.8	2.0359+00	2.0290+01	2.2325+01	6.8426+01	-3.0764+00	2.0359+00
-4.6	2.0275+00	2.0086+01	2.2114+01	6.7287+01	-2.8782+00	2.0275+00
-4.4	2.0202+00	1.9914+01	2.1935+01	6.6183+01	-2.6797+00	2.0203+00
-4.2	2.0135+00	1.9762+01	2.1776+01	6.5102+01	-2.4812+00	2.0135+00
-4.0	2.0066+00	1.9617+01	2.1624+01	6.4031+01	-2.2827+00	2.0066+00
-3.8	1.9988+00	1.9464+01	2.1463+01	6.2956+01	-2.0844+00	1.9988+00
-3.6	1.9891+00	1.9286+01	2.1275+01	6.1859+01	-1.8865+00	1.9891+00
-3.4	1.9759+00	1.9058+01	2.1034+01	6.0718+01	-1.6894+00	1.9759+00
-3.2	1.9576+00	1.8751+01	2.0708+01	5.9505+01	-1.4934+00	1.9576+00
-3.0	1.9320+00	1.8329+01	2.0261+01	5.8187+01	-1.2991+00	1.9320+00
-2.8	1.8968+00	1.7756+01	1.9653+01	5.6732+01	-1.1071+00	1.8968+00
-2.6	1.8503+00	1.7005+01	1.8855+01	5.5118+01	-9.1790-01	1.8503+00
-2.4	1.7921+00	1.6067+01	1.7859+01	5.3341+01	-7.3178-01	1.7921+00
-2.2	1.7235+00	1.4965+01	1.6688+01	5.1429+01	-5.4873-01	1.7235+00
-2.0	1.6477+00	1.3747+01	1.5395+01	4.9435+01	-3.6827-01	1.6477+00
-1.8	1.5686+00	1.2479+01	1.4048+01	4.7426+01	-1.8962-01	1.5686+00
-1.6	1.4906+00	1.1226+01	1.2717+01	4.5469+01	-1.1793-02	1.4905+00
-1.4	1.4168+00	1.0043+01	1.1460+01	4.3617+01	1.6615-01	1.4167+00
-1.2	1.3495+00	8.9651+00	1.0315+01	4.1902+01	3.4504-01	1.3494+00
-1.0	1.2901+00	8.0112+00	9.3013+00	4.0341+01	5.2547-01	1.2899+00
-.8	1.2387+00	7.1865+00	8.4251+00	3.8934+01	7.0782-01	1.2384+00
-.6	1.1951+00	6.4861+00	7.6812+00	3.7673+01	8.9226-01	1.1947+00
-.4	1.1587+00	5.8998+00	7.0586+00	3.6545+01	1.0788+00	1.1581+00
-.2	1.1288+00	5.4144+00	6.5432+00	3.5534+01	1.2675+00	1.1278+00
.0	1.1044+00	5.0161+00	6.1205+00	3.4621+01	1.4580+00	1.1029+00
.2	1.0850+00	4.6913+00	5.7762+00	3.3792+01	1.6503+00	1.0826+00
.4	1.0698+00	4.4280+00	5.4978+00	3.3033+01	1.8442+00	1.0662+00
.6	1.0586+00	4.2153+00	5.2739+00	3.2331+01	2.0396+00	1.0529+00
.8	1.0511+00	4.0443+00	5.0954+00	3.1674+01	2.2365+00	1.0421+00
1.0	1.0477+00	3.9071+00	4.9547+00	3.1054+01	2.4351+00	1.0335+00
1.2	1.0488+00	3.7973+00	4.8462+00	3.0461+01	2.6356+00	1.0266+00
1.4	1.0561+00	3.7101+00	4.7661+00	2.9890+01	2.8385+00	1.0211+00
1.6	1.0718+00	3.6411+00	4.7129+00	2.9331+01	3.0450+00	1.0166+00
1.8	1.1001+00	3.5877+00	4.6878+00	2.8778+01	3.2563+00	1.0130+00
2.0	1.1478+00	3.5476+00	4.6954+00	2.8271+01	3.4747+00	1.0100+00
2.2	1.2254+00	3.5202+00	4.7456+00	2.7649+01	3.7031+00	1.0076+00

T= 1200

LDG D	N2	N2+	N+	N++	N	E
-7.0	1.5600-06	1.3800-07	1.9600-01	5.4300-13	6.0700-01	1.9700-01
-6.8	2.8700-06	1.9600-07	1.6700-01	3.5600-13	6.6700-01	1.6700-01
-6.6	5.1400-06	2.7300-07	1.4000-01	2.3200-13	7.2000-01	1.4000-01
-6.4	9.0000-06	3.7200-07	1.1600-01	1.5000-13	7.6800-01	1.1600-01
-6.2	1.5500-05	5.0100-07	9.5800-02	9.7000-14	8.0800-01	9.5800-02
-6.0	2.6200-05	6.6500-07	7.8400-02	6.2400-14	8.4300-01	7.8500-02
-5.8	4.3700-05	8.7400-07	6.3900-02	4.0000-14	8.7200-01	6.3900-02
-5.6	7.2200-05	1.1400-06	5.1800-02	2.5600-14	8.9600-01	5.1800-02
-5.4	1.1800-04	1.4800-06	4.1800-02	1.6300-14	9.1600-01	4.1800-02
-5.2	1.9300-04	1.9000-06	3.3600-02	1.0400-14	9.3300-01	3.3700-02
-5.0	3.1200-04	2.4300-06	2.7000-02	6.6000-15	9.4600-01	2.7000-02
-4.8	5.0200-04	3.1100-06	2.1600-02	4.1900-15	9.5600-01	2.1600-02
-4.6	8.0600-04	3.9500-06	1.7300-02	2.6600-15	9.6500-01	1.7300-02
-4.4	1.2900-03	5.0700-06	1.3800-02	1.6800-15	9.7100-01	1.3800-02
-4.2	2.0600-03	6.3500-06	1.1000-02	1.0700-15	9.7600-01	1.1000-02
-4.0	3.2700-03	8.0200-06	8.7900-03	6.7600-16	9.7900-01	8.8000-03
-3.8	5.1800-03	1.0100-05	7.0000-03	4.2800-16	9.8100-01	7.0100-03
-3.6	8.1700-03	1.2700-05	5.5700-03	2.7100-16	9.8100-01	5.5800-03
-3.4	1.2800-02	1.5900-05	4.4300-03	1.7200-16	9.7800-01	4.4500-03
-3.2	1.9900-02	1.9700-05	3.5200-03	1.0900-16	9.7300-01	3.5400-03
-3.0	3.0700-02	2.4300-05	2.8000-03	6.9700-17	9.6400-01	2.8200-03
-2.8	4.6400-02	2.9600-05	2.2200-03	4.4600-17	9.4900-01	2.2500-03
-2.6	6.8700-02	3.5500-05	1.7600-03	2.8600-17	9.2800-01	1.7900-03
-2.4	9.9200-02	4.1800-05	1.3900-03	1.8400-17	8.9800-01	1.4300-03
-2.2	1.3900-01	4.8100-05	1.0900-03	1.1900-17	8.5900-01	1.1400-03
-2.0	1.8800-01	5.3900-05	8.5100-04	7.7100-18	8.1000-01	9.0500-04
-1.8	2.4500-01	5.8700-05	6.6000-04	4.9900-18	7.5300-01	7.1800-04
-1.6	3.0900-01	6.2100-05	5.0700-04	3.2200-18	6.8900-01	5.6900-04
-1.4	3.7800-01	6.4000-05	3.8500-04	2.0600-18	6.2100-01	4.4900-04
-1.2	4.4800-01	6.4200-05	2.8800-04	1.3100-18	5.5100-01	3.5300-04
-1.0	5.1800-01	6.2700-05	2.1300-04	8.2000-19	4.8100-01	2.7600-04
-.8	5.8500-01	5.9800-05	1.5500-04	5.0600-19	4.1500-01	2.1500-04
-.6	6.4600-01	5.5800-05	1.1200-04	3.0700-19	3.5300-01	1.6800-04
-.4	7.0200-01	5.1100-05	7.9100-05	1.8400-19	2.9700-01	1.3000-04
-.2	7.5200-01	4.5800-05	5.5300-05	1.0800-19	2.4800-01	1.0100-04
.0	7.9500-01	4.0400-05	3.8200-05	6.2100-20	2.0500-01	7.8600-05
.2	8.3200-01	3.5200-05	2.6000-05	3.5200-20	1.6800-01	6.1200-05
.4	8.6300-01	3.0200-05	1.7600-05	1.9600-20	1.3700-01	4.7700-05
.6	8.8900-01	2.5600-05	1.1700-05	1.0800-20	1.1100-01	3.7300-05
.8	9.1000-01	2.1500-05	7.7800-06	5.8500-21	8.9700-02	2.9300-05
1.0	9.2800-01	1.8000-05	5.1300-06	3.1300-21	7.2100-02	2.3100-05
1.2	9.4200-01	1.5000-05	3.3700-06	1.6600-21	5.7600-02	1.8300-05
1.4	9.5400-01	1.2400-05	2.2100-06	8.6500-22	4.5900-02	1.4600-05
1.6	9.6400-01	1.0400-05	1.4500-06	4.4700-22	3.6300-02	1.1800-05
1.8	9.7100-01	8.6900-06	9.5500-07	2.2700-22	2.8500-02	9.6500-06
2.0	9.7800-01	7.4200-06	6.3600-07	1.1300-22	2.2100-02	8.0500-06
2.2	9.8300-01	6.5100-06	4.3300-07	5.4900-23	1.6900-02	6.9400-06

T= 7200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.4890+00	3.1301+01	3.3790+01	9.0812+01	-5.1830+00	2.4891+00
-6.8	2.3997+00	2.9087+01	3.1487+01	8.7473+01	-4.9989+00	2.3998+00
-6.6	2.3249+00	2.7230+01	2.9555+01	8.4529+01	-4.8127+00	2.3250+00
-6.4	2.2628+00	2.5690+01	2.7953+01	8.1933+01	-4.6244+00	2.2629+00
-6.2	2.2118+00	2.4425+01	2.6637+01	7.9638+01	-4.4343+00	2.2118+00
-6.0	2.1701+00	2.3392+01	2.5563+01	7.7597+01	-4.2426+00	2.1702+00
-5.8	2.1363+00	2.2555+01	2.4691+01	7.5767+01	-4.0494+00	2.1364+00
-5.6	2.1090+00	2.1877+01	2.3986+01	7.4113+01	-3.8550+00	2.1091+00
-5.4	2.0870+00	2.1331+01	2.3418+01	7.2601+01	-3.6596+00	2.0870+00
-5.2	2.0692+00	2.0892+01	2.2961+01	7.1204+01	-3.4633+00	2.0692+00
-5.0	2.0548+00	2.0538+01	2.2593+01	6.9901+01	-3.2663+00	2.0549+00
-4.8	2.0432+00	2.0252+01	2.2295+01	6.8671+01	-3.0688+00	2.0432+00
-4.6	2.0335+00	2.0018+01	2.2052+01	6.7499+01	-2.8708+00	2.0336+00
-4.4	2.0254+00	1.9824+01	2.1850+01	6.6371+01	-2.6726+00	2.0254+00
-4.2	2.0181+00	1.9658+01	2.1676+01	6.5273+01	-2.4741+00	2.0181+00
-4.0	2.0111+00	1.9506+01	2.1517+01	6.4194+01	-2.2756+00	2.0111+00
-3.8	2.0036+00	1.9355+01	2.1359+01	6.3119+01	-2.0773+00	2.0036+00
-3.6	1.9948+00	1.9190+01	2.1184+01	6.2032+01	-1.8792+00	1.9948+00
-3.4	1.9834+00	1.8988+01	2.0971+01	6.0914+01	-1.6817+00	1.9834+00
-3.2	1.9677+00	1.8724+01	2.0691+01	5.9740+01	-1.4851+00	1.9677+00
-3.0	1.9458+00	1.8364+01	2.0310+01	5.8480+01	-1.2900+00	1.9458+00
-2.8	1.9154+00	1.7874+01	1.9789+01	5.7099+01	-1.0968+00	1.9154+00
-2.6	1.8745+00	1.7218+01	1.9093+01	5.5571+01	-9.0619-01	1.8745+00
-2.4	1.8218+00	1.6380+01	1.8202+01	5.3881+01	-7.1856-01	1.8218+00
-2.2	1.7574+00	1.5365+01	1.7123+01	5.2041+01	-5.3407-01	1.7579+00
-2.0	1.6851+00	1.4210+01	1.5895+01	5.0093+01	-3.5244-01	1.6851+00
-1.8	1.6071+00	1.2973+01	1.4581+01	4.8099+01	-1.7304-01	1.6070+00
-1.6	1.5280+00	1.1722+01	1.3250+01	4.6125+01	5.0603-03	1.5280+00
-1.4	1.4518+00	1.0515+01	1.1967+01	4.4232+01	1.8293-01	1.4517+00
-1.2	1.3812+00	9.3972+00	1.0778+01	4.2463+01	3.6118-01	1.3810+00
-1.0	1.3179+00	8.3950+00	9.7129+00	4.0839+01	5.4080-01	1.3177+00
-.8	1.2626+00	7.5194+00	8.7820+00	3.9370+01	7.2219-01	1.2623+00
-.6	1.2153+00	6.7697+00	7.9850+00	3.8050+01	9.0562-01	1.2149+00
-.4	1.1756+00	6.1381+00	7.3137+00	3.6868+01	1.0912+00	1.1749+00
-.2	1.1427+00	5.6125+00	6.7552+00	3.5809+01	1.2789+00	1.1417+00
.0	1.1158+00	5.1794+00	6.2952+00	3.4856+01	1.4685+00	1.1143+00
.2	1.0942+00	4.8253+00	5.9195+00	3.3993+01	1.6600+00	1.0919+00
.4	1.0773+00	4.5374+00	5.6148+00	3.3205+01	1.8533+00	1.0736+00
.6	1.0647+00	4.3045+00	5.3692+00	3.2479+01	2.0481+00	1.0589+00
.8	1.0560+00	4.1169+00	5.1729+00	3.1804+01	2.2446+00	1.0470+00
1.0	1.0516+00	3.9661+00	5.0177+00	3.1168+01	2.4428+00	1.0374+00
1.2	1.0520+00	3.8454+00	4.8974+00	3.0563+01	2.6429+00	1.0297+00
1.4	1.0585+00	3.7492+00	4.8078+00	2.9981+01	2.8456+00	1.0235+00
1.6	1.0737+00	3.6731+00	4.7469+00	2.9414+01	3.0518+00	1.0185+00
1.8	1.1016+00	3.6138+00	4.7154+00	2.8855+01	3.2630+00	1.0145+00
2.0	1.1489+00	3.5691+00	4.7179+00	2.8293+01	3.4812+00	1.0112+00
2.2	1.2260+00	3.5378+00	4.7639+00	2.7716+01	3.7094+00	1.0085+00

T= 7300

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.1000-06	1.2200-07	2.2000-01	1.0300-12	5.5900-01	2.2000-01
-6.8	2.0700-06	1.7700-07	1.8800-01	6.7900-13	6.2300-01	1.8800-01
-6.6	3.7900-06	2.5000-07	1.5900-01	4.4400-13	6.8100-01	1.5900-01
-6.4	6.7500-06	3.4700-07	1.3300-01	2.8900-13	7.3300-01	1.3300-01
-6.2	1.1800-05	4.7200-07	1.1100-01	1.8700-13	7.7900-01	1.1100-01
-6.0	2.0100-05	6.3200-07	9.1000-02	1.2100-13	8.1800-01	9.1000-02
-5.8	3.3900-05	8.3700-07	7.4400-02	7.7500-14	8.5100-01	7.4400-02
-5.6	5.6500-05	1.1000-06	6.0500-02	4.9700-14	8.7900-01	6.0500-02
-5.4	9.3100-05	1.4300-06	4.9000-02	3.1700-14	9.0200-01	4.9000-02
-5.2	1.5200-04	1.8400-06	3.9500-02	2.0200-14	9.2100-01	3.9500-02
-5.0	2.4700-04	2.3700-06	3.1800-02	1.2900-14	9.3600-01	3.1800-02
-4.8	4.0000-04	3.0400-06	2.5500-02	8.1800-15	9.4900-01	2.5500-02
-4.6	6.4400-04	3.8700-06	2.0400-02	5.1900-15	9.5900-01	2.0400-02
-4.4	1.0300-03	4.9200-06	1.6300-02	3.2900-15	9.6600-01	1.6300-02
-4.2	1.6500-03	6.2400-06	1.3000-02	2.0900-15	9.7200-01	1.3000-02
-4.0	2.6300-03	7.9000-06	1.0400-02	1.3200-15	9.7700-01	1.0400-02
-3.8	4.1700-03	9.9700-06	8.2800-03	8.3800-16	9.7900-01	8.2900-03
-3.6	6.6000-03	1.2500-05	6.6000-03	5.3100-16	9.8000-01	6.6100-03
-3.4	1.0400-02	1.5700-05	5.2500-03	3.3700-16	9.7900-01	5.2600-03
-3.2	1.6200-02	1.9600-05	4.1700-03	2.1400-16	9.7500-01	4.1900-03
-3.0	2.5100-02	2.4300-05	3.3200-03	1.3600-16	9.6800-01	3.3400-03
-2.8	3.8300-02	2.9700-05	2.6300-03	8.6900-17	9.5600-01	2.6600-03
-2.6	5.7300-02	3.6000-05	2.0800-03	5.5700-17	9.3800-01	2.1200-03
-2.4	8.3800-02	4.2700-05	1.6500-03	3.5800-17	9.1300-01	1.6900-03
-2.2	1.1900-01	4.9700-05	1.3000-03	2.3100-17	8.7800-01	1.3500-03
-2.0	1.6400-01	5.6300-05	1.0200-03	1.4900-17	8.3400-01	1.0700-03
-1.8	2.1700-01	6.2200-05	7.9100-04	9.6800-18	7.8100-01	8.5300-04
-1.6	2.7900-01	6.6700-05	6.1000-04	6.2500-18	7.2000-01	6.7700-04
-1.4	3.4600-01	6.9600-05	4.6600-04	4.0200-18	6.5300-01	5.3500-04
-1.2	4.1500-01	7.0600-05	3.5100-04	2.5600-18	5.8400-01	4.2200-04
-1.0	4.8600-01	6.9700-05	2.6100-04	1.6100-18	5.1400-01	3.3100-04
-.8	5.5400-01	6.7200-05	1.9200-04	1.0000-18	4.4600-01	2.5900-04
-.6	6.1800-01	6.3400-05	1.3900-04	6.1200-19	3.8200-01	2.0200-04
-.4	6.7700-01	5.8400-05	9.8700-05	3.6800-19	3.2300-01	1.5700-04
-.2	7.2900-01	5.2800-05	6.9400-05	2.1700-19	2.7000-01	1.2200-04
.0	7.7600-01	4.7000-05	4.8100-05	1.2600-19	2.2400-01	9.5100-05
.2	8.1500-01	4.1100-05	3.2900-05	7.1900-20	1.8500-01	7.4000-05
.4	8.4900-01	3.5400-05	2.2300-05	4.0300-20	1.5100-01	5.7800-05
.6	8.7700-01	3.0200-05	1.5000-05	2.2300-20	1.2300-01	4.5200-05
.8	9.0100-01	2.5500-05	9.9700-06	1.2200-20	9.9200-02	3.5500-05
1.0	9.2000-01	2.1400-05	6.5900-06	6.5400-21	7.9800-02	2.8000-05
1.2	9.3600-01	1.7800-05	4.3400-06	3.4700-21	6.3900-02	2.2200-05
1.4	9.4900-01	1.4900-05	2.8500-06	1.8200-21	5.0900-02	1.7700-05
1.6	9.6000-01	1.2400-05	1.8700-06	9.4400-22	4.0300-02	1.4300-05
1.8	9.6800-01	1.0400-05	1.2300-06	4.8100-22	3.1700-02	1.1700-05
2.0	9.7500-01	8.9200-06	8.2300-07	2.4100-22	2.4600-02	9.7400-06
2.2	9.8100-01	7.8400-06	5.5900-07	1.1700-22	1.8800-02	8.4000-06

T= 7300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.5648+00	3.2799+01	3.5364+01	9.2752+01	-5.1640+00	2.5650+00
-6.8	2.4641+00	3.0335+01	3.2799+01	8.9130+01	-4.9814+00	2.4643+00
-6.6	2.3788+00	2.8246+01	3.0625+01	8.5927+01	-4.7967+00	2.3789+00
-6.4	2.3074+00	2.6499+01	2.8807+01	8.3102+01	-4.6099+00	2.3075+00
-6.2	2.2484+00	2.5055+01	2.7303+01	8.0609+01	-4.4212+00	2.2485+00
-6.0	2.2000+00	2.3870+01	2.6070+01	7.8400+01	-4.2307+00	2.2001+00
-5.8	2.1606+00	2.2905+01	2.5066+01	7.6431+01	-4.0385+00	2.1606+00
-5.6	2.1286+00	2.2123+01	2.4251+01	7.4662+01	-3.8450+00	2.1287+00
-5.4	2.1027+00	2.1491+01	2.3593+01	7.3055+01	-3.6503+00	2.1028+00
-5.2	2.0819+00	2.0981+01	2.3063+01	7.1583+01	-3.4546+00	2.0819+00
-5.0	2.0651+00	2.0571+01	2.2636+01	7.0218+01	-3.2581+00	2.0651+00
-4.8	2.0514+00	2.0240+01	2.2292+01	6.8939+01	-3.0610+00	2.0515+00
-4.6	2.0403+00	1.9972+01	2.2012+01	6.7729+01	-2.8634+00	2.0403+00
-4.4	2.0310+00	1.9752+01	2.1783+01	6.6571+01	-2.6654+00	2.0311+00
-4.2	2.0230+00	1.9566+01	2.1589+01	6.5452+01	-2.4671+00	2.0230+00
-4.0	2.0156+00	1.9403+01	2.1419+01	6.4360+01	-2.2687+00	2.0157+00
-3.8	2.0082+00	1.9250+01	2.1258+01	6.3279+01	-2.0703+00	2.0083+00
-3.6	2.0000+00	1.9090+01	2.1090+01	6.2197+01	-1.8721+00	2.0000+00
-3.4	1.9898+00	1.8907+01	2.0897+01	6.1095+01	-1.6743+00	1.9898+00
-3.2	1.9762+00	1.8676+01	2.0652+01	5.9950+01	-1.4772+00	1.9762+00
-3.0	1.9574+00	1.8367+01	2.0324+01	5.8735+01	-1.2814+00	1.9574+00
-2.8	1.9312+00	1.7946+01	1.9877+01	5.7418+01	-1.0873+00	1.9312+00
-2.6	1.8953+00	1.7377+01	1.9272+01	5.5968+01	-8.9539-01	1.8953+00
-2.4	1.8482+00	1.6633+01	1.8481+01	5.4362+01	-7.0633-01	1.8482+00
-2.2	1.7893+00	1.5709+01	1.7499+01	5.2600+01	-5.2039-01	1.7893+00
-2.0	1.7203+00	1.4627+01	1.6347+01	5.0709+01	-3.3748-01	1.7203+00
-1.8	1.6441+00	1.3435+01	1.5079+01	4.8743+01	-1.5714-01	1.6441+00
-1.6	1.5650+00	1.2198+01	1.3763+01	4.6767+01	2.1441-02	1.5650+00
-1.4	1.4870+00	1.0979+01	1.2466+01	4.4845+01	1.9924-01	1.4870+00
-1.2	1.4135+00	9.8299+00	1.1243+01	4.3028+01	3.7722-01	1.4134+00
-1.0	1.3466+00	8.7846+00	1.0131+01	4.1347+01	5.5617-01	1.3464+00
-.8	1.2875+00	7.8609+00	9.1485+00	3.9817+01	7.3669-01	1.2873+00
-.6	1.2366+00	7.0630+00	8.2996+00	3.8438+01	9.1915-01	1.2361+00
-.4	1.1934+00	6.3860+00	7.5795+00	3.7202+01	1.1037+00	1.1928+00
-.2	1.1575+00	5.8196+00	6.9771+00	3.6095+01	1.2904+00	1.1565+00
.0	1.1280+00	5.3509+00	6.4789+00	3.5100+01	1.4792+00	1.1264+00
.2	1.1042+00	4.9663+00	6.0705+00	3.4201+01	1.6700+00	1.1018+00
.4	1.0854+00	4.6528+00	5.7383+00	3.3384+01	1.8625+00	1.0817+00
.6	1.0712+00	4.3987+00	5.4699+00	3.2633+01	2.0568+00	1.0654+00
.8	1.0613+00	4.1936+00	5.2548+00	3.1937+01	2.2527+00	1.0522+00
1.0	1.0558+00	4.0285+00	5.0843+00	3.1285+01	2.4505+00	1.0416+00
1.2	1.0553+00	3.8962+00	4.9515+00	3.0667+01	2.6503+00	1.0330+00
1.4	1.0612+00	3.7906+00	4.8518+00	3.0074+01	2.8527+00	1.0261+00
1.6	1.0759+00	3.7069+00	4.7827+00	2.9499+01	3.0587+00	1.0206+00
1.8	1.1033+00	3.6414+00	4.7446+00	2.8932+01	3.2696+00	1.0161+00
2.0	1.1500+00	3.5916+00	4.7416+00	2.8364+01	3.4876+00	1.0125+00
2.2	1.2268+00	3.5562+00	4.7831+00	2.7783+01	3.7157+00	1.0095+00

T= 7400

LOG D	N2	N2+	N+	N++	N	E
-7.0	7.6500-07	1.0700-07	2.4400-01	1.9300-12	5.1100-01	2.4400-01
-6.8	1.4800-06	1.5800-07	2.1100-01	1.2700-12	5.7800-01	2.1100-01
-6.6	2.7800-06	2.2800-07	1.8000-01	8.3400-13	6.4000-01	1.8000-01
-6.4	5.0400-06	3.2000-07	1.5200-01	5.4400-13	6.9700-01	1.5200-01
-6.2	8.9200-06	4.4100-07	1.2700-01	3.5400-13	7.4700-01	1.2700-01
-6.0	1.5400-05	5.9700-07	1.0500-01	2.2900-13	7.9100-01	1.0500-01
-5.8	2.6300-05	7.9700-07	8.6000-02	1.4700-13	8.2800-01	8.6000-02
-5.6	4.4200-05	1.0500-06	7.0200-02	9.4700-14	8.6000-01	7.0200-02
-5.4	7.3300-05	1.3800-06	5.7000-02	6.0600-14	8.8600-01	5.7000-02
-5.2	1.2100-04	1.7900-06	4.6100-02	3.8700-14	9.0800-01	4.6100-02
-5.0	1.9700-04	2.3100-06	3.7200-02	2.4700-14	9.2500-01	3.7200-02
-4.8	3.1900-04	2.9600-06	2.9900-02	1.5700-14	9.4000-01	2.9900-02
-4.6	5.1500-04	3.7800-06	2.4000-02	9.9700-15	9.5200-01	2.4000-02
-4.4	8.2800-04	4.8200-06	1.9200-02	6.3300-15	9.6100-01	1.9200-02
-4.2	1.3300-03	6.1300-06	1.5300-02	4.0100-15	9.6800-01	1.5300-02
-4.0	2.1200-03	7.7600-06	1.2200-02	2.5400-15	9.7300-01	1.2200-02
-3.8	3.3700-03	9.8100-06	9.7500-03	1.6100-15	9.7700-01	9.7600-03
-3.6	5.3400-03	1.2400-05	7.7700-03	1.0200-15	9.7900-01	7.7800-03
-3.4	8.4300-03	1.5500-05	6.1900-03	6.4800-16	9.7900-01	6.2000-03
-3.2	1.3200-02	1.9400-05	4.9200-03	4.1100-16	9.7700-01	4.9400-03
-3.0	2.0500-02	2.4100-05	3.9100-03	2.6200-16	9.7200-01	3.9400-03
-2.8	3.1600-02	2.9700-05	3.1100-03	1.6700-16	9.6200-01	3.1400-03
-2.6	4.7700-02	3.6200-05	2.4600-03	1.0700-16	9.4700-01	2.5000-03
-2.4	7.0600-02	4.3400-05	1.9500-03	6.8400-17	9.2500-01	1.9900-03
-2.2	1.0200-01	5.1000-05	1.5400-03	4.4100-17	8.9500-01	1.5900-03
-2.0	1.4200-01	5.8500-05	1.2100-03	2.8500-17	8.5600-01	1.2700-03
-1.8	1.9200-01	6.5300-05	9.4300-04	1.8400-17	8.0600-01	1.0100-03
-1.6	2.5000-01	7.1000-05	7.3000-04	1.1900-17	7.4900-01	8.0100-04
-1.4	3.1400-01	7.5000-05	5.6000-04	7.6800-18	6.8500-01	6.3500-04
-1.2	3.8300-01	7.7000-05	4.2400-04	4.9100-18	6.1600-01	5.0100-04
-1.0	4.5400-01	7.7000-05	3.1800-04	3.1100-18	5.4600-01	3.9500-04
-.8	5.2300-01	7.5000-05	2.3400-04	1.9400-18	4.7600-01	3.0900-04
-.6	5.8900-01	7.1400-05	1.7000-04	1.1900-18	4.1000-01	2.4200-04
-.4	6.5100-01	6.6400-05	1.2200-04	7.2200-19	3.4900-01	1.8900-04
-.2	7.0600-01	6.0500-05	8.6300-05	4.2900-19	2.9400-01	1.4700-04
.0	7.5500-01	5.4200-05	6.0200-05	2.5100-19	2.4500-01	1.1400-04
.2	7.9800-01	4.7700-05	4.1400-05	1.4400-19	2.0200-01	8.9100-05
.4	8.3400-01	4.1400-05	2.8200-05	8.1300-20	1.6600-01	6.9500-05
.6	8.6500-01	3.5400-05	1.9000-05	4.5200-20	1.3500-01	5.4400-05
.8	8.9100-01	3.0100-05	1.2700-05	2.4700-20	1.0900-01	4.2700-05
1.0	9.1200-01	2.5300-05	8.4000-06	1.3400-20	8.8100-02	3.3700-05
1.2	9.2900-01	2.1200-05	5.5400-06	7.1300-21	7.0600-02	2.6700-05
1.4	9.4400-01	1.7700-05	3.6500-06	3.7600-21	5.6400-02	2.1300-05
1.6	9.5500-01	1.4800-05	2.4000-06	1.9500-21	4.4700-02	1.7200-05
1.8	9.6500-01	1.2500-05	1.5800-06	1.0000-21	3.5100-02	1.4000-05
2.0	9.7300-01	1.0700-05	1.0600-06	5.0200-22	2.7300-02	1.1700-05
2.2	9.7900-01	9.3900-06	7.1800-07	2.4600-22	2.0900-02	1.0100-05

T= 7400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z#
-7.0	2.6471+00	3.4413+01	3.7060+01	9.4823+01	-5.1444+00	2.6472+00
-6.8	2.5349+00	3.1703+01	3.4238+01	9.0921+01	-4.9632+00	2.5350+00
-6.6	2.4386+00	2.9378+01	3.1817+01	8.7451+01	-4.7800+00	2.4387+00
-6.4	2.3573+00	2.7415+01	2.9772+01	8.4384+01	-4.5947+00	2.3575+00
-6.2	2.2896+00	2.5780+01	2.8069+01	8.1679+01	-4.4074+00	2.2898+00
-6.0	2.2338+00	2.4430+01	2.6664+01	7.9289+01	-4.2181+00	2.2339+00
-5.8	2.1881+00	2.3326+01	2.5514+01	7.7167+01	-4.0271+00	2.1882+00
-5.6	2.1509+00	2.2428+01	2.4578+01	7.5269+01	-3.8346+00	2.1509+00
-5.4	2.1207+00	2.1700+01	2.3821+01	7.3559+01	-3.6407+00	2.1208+00
-5.2	2.0964+00	2.1113+01	2.3209+01	7.2001+01	-3.4457+00	2.0965+00
-5.0	2.0767+00	2.0640+01	2.2716+01	7.0567+01	-3.2498+00	2.0768+00
-4.8	2.0609+00	2.0258+01	2.2319+01	6.9233+01	-3.0531+00	2.0609+00
-4.6	2.0480+00	1.9950+01	2.1998+01	6.7978+01	-2.8558+00	2.0480+00
-4.4	2.0373+00	1.9699+01	2.1736+01	6.6787+01	-2.6581+00	2.0374+00
-4.2	2.0284+00	1.9490+01	2.1519+01	6.5642+01	-2.4600+00	2.0284+00
-4.0	2.0204+00	1.9312+01	2.1333+01	6.4532+01	-2.2617+00	2.0204+00
-3.8	2.0128+00	1.9151+01	2.1164+01	6.3442+01	-2.0634+00	2.0129+00
-3.6	2.0048+00	1.8993+01	2.0998+01	6.2358+01	-1.8651+00	2.0049+00
-3.4	1.9955+00	1.8821+01	2.0816+01	6.1265+01	-1.6671+00	1.9955+00
-3.2	1.9835+00	1.8614+01	2.0597+01	6.0142+01	-1.4697+00	1.9836+00
-3.0	1.9673+00	1.8345+01	2.0312+01	5.8963+01	-1.2733+00	1.9673+00
-2.8	1.9446+00	1.7982+01	1.9927+01	5.7700+01	-1.0783+00	1.9447+00
-2.6	1.9134+00	1.7490+01	1.9403+01	5.6318+01	-8.8536-01	1.9134+00
-2.4	1.8715+00	1.6836+01	1.8707+01	5.4792+01	-6.9497-01	1.8715+00
-2.2	1.8179+00	1.6003+01	1.7821+01	5.3110+01	-5.0759-01	1.8179+00
-2.0	1.7532+00	1.5001+01	1.6754+01	5.1285+01	-3.2333-01	1.7532+00
-1.8	1.6798+00	1.3866+01	1.5545+01	4.9359+01	-1.4190-01	1.6798+00
-1.6	1.6015+00	1.2656+01	1.4257+01	4.7394+01	3.7368-02	1.6015+00
-1.4	1.5225+00	1.1436+01	1.2959+01	4.5455+01	2.1540-01	1.5225+00
-1.2	1.4466+00	1.0264+01	1.1711+01	4.3599+01	3.9318-01	1.4465+00
-1.0	1.3765+00	9.1817+00	1.0558+01	4.1867+01	5.7160-01	1.3763+00
-.8	1.3137+00	8.2131+00	9.5268+00	4.0279+01	7.5134-01	1.3135+00
-.6	1.2591+00	7.3682+00	8.6272+00	3.8842+01	9.3289-01	1.2586+00
-.4	1.2124+00	6.6458+00	7.8582+00	3.7551+01	1.1165+00	1.2118+00
-.2	1.1733+00	6.0377+00	7.2111+00	3.6394+01	1.3023+00	1.1723+00
.0	1.1411+00	5.5321+00	6.6732+00	3.5356+01	1.4901+00	1.1395+00
.2	1.1149+00	5.1158+00	6.2307+00	3.4420+01	1.6801+00	1.1125+00
.4	1.0941+00	4.7755+00	5.8696+00	3.3571+01	1.8719+00	1.0904+00
.6	1.0782+00	4.4989+00	5.5771+00	3.2795+01	2.0655+00	1.0724+00
.8	1.0670+00	4.2752+00	5.3422+00	3.2077+01	2.2610+00	1.0579+00
1.0	1.0604+00	4.0950+00	5.1553+00	3.1407+01	2.4583+00	1.0461+00
1.2	1.0590+00	3.9503+00	5.0093+00	3.0775+01	2.6577+00	1.0366+00
1.4	1.0641+00	3.8346+00	4.8987+00	3.0171+01	2.8598+00	1.0290+00
1.6	1.0782+00	3.7427+00	4.8209+00	2.9586+01	3.0655+00	1.0229+00
1.8	1.1051+00	3.6706+00	4.7756+00	2.9012+01	3.2762+00	1.0179+00
2.0	1.1514+00	3.6154+00	4.7668+00	2.8438+01	3.4940+00	1.0139+00
2.2	1.2277+00	3.5757+00	4.8034+00	2.7852+01	3.7219+00	1.0106+00

T= 7500

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.2700-07	9.2200-08	2.6900-01	3.5300-12	4.6200-01	2.6900-01
-6.8	1.0500-06	1.4000-07	2.3400-01	2.3300-12	5.3200-01	2.3400-01
-6.6	2.0200-06	2.0500-07	2.0100-01	1.5400-12	5.9700-01	2.0100-01
-6.4	3.7500-06	2.9300-07	1.7100-01	1.0100-12	6.5800-01	1.7100-01
-6.2	6.7400-06	4.1000-07	1.4400-01	6.5600-13	7.1200-01	1.4400-01
-6.0	1.1800-05	5.6100-07	1.2000-01	4.2600-13	7.6100-01	1.2000-01
-5.8	2.0400-05	7.5600-07	9.8800-02	2.7500-13	8.0200-01	9.8800-02
-5.6	3.4600-05	1.0100-06	8.1000-02	1.7700-13	8.3800-01	8.1000-02
-5.4	5.7900-05	1.3200-06	6.6000-02	1.1400-13	8.6800-01	6.6000-02
-5.2	9.5800-05	1.7300-06	5.3500-02	7.2700-14	8.9300-01	5.3500-02
-5.0	1.5700-04	2.2400-06	4.3300-02	4.6400-14	9.1300-01	4.3300-02
-4.8	2.5600-04	2.8900-06	3.4800-02	2.9600-14	9.3000-01	3.4800-02
-4.6	4.1400-04	3.7000-06	2.8000-02	1.8800-14	9.4400-01	2.8000-02
-4.4	6.6800-04	4.7300-06	2.2400-02	1.1900-14	9.5400-01	2.2400-02
-4.2	1.0700-03	6.0100-06	1.7900-02	7.5800-15	9.6300-01	1.7900-02
-4.0	1.7200-03	7.6300-06	1.4300-02	4.8100-15	9.7000-01	1.4300-02
-3.8	2.7400-03	9.6600-06	1.1400-02	3.0500-15	9.7400-01	1.1400-02
-3.6	4.3500-03	1.2200-05	9.1100-03	1.9300-15	9.7700-01	9.1300-03
-3.4	6.8700-03	1.5400-05	7.2600-03	1.2200-15	9.7900-01	7.2700-03
-3.2	1.0800-02	1.9200-05	5.7800-03	7.7700-16	9.7800-01	5.8000-03
-3.0	1.6900-02	2.4000-05	4.5900-03	4.9400-16	9.7400-01	4.6200-03
-2.8	2.6100-02	2.9700-05	3.6500-03	3.1400-16	9.6700-01	3.6800-03
-2.6	3.9800-02	3.6300-05	2.9000-03	2.0100-16	9.5400-01	2.9300-03
-2.4	5.9400-02	4.3900-05	2.2900-03	1.2900-16	9.3600-01	2.3400-03
-2.2	8.6700-02	5.2000-05	1.8100-03	8.2700-17	9.1000-01	1.8700-03
-2.0	1.2300-01	6.0400-05	1.4300-03	5.3400-17	8.7400-01	1.4900-03
-1.8	1.6800-01	6.8300-05	1.1200-03	3.4500-17	8.2900-01	1.1900-03
-1.6	2.2300-01	7.5100-05	8.6800-04	2.2300-17	7.7500-01	9.4300-04
-1.4	2.8500-01	8.0300-05	6.6900-04	1.4400-17	7.1400-01	7.4900-04
-1.2	3.5200-01	8.3500-05	5.0900-04	9.2500-18	6.4700-01	5.9300-04
-1.0	4.2200-01	8.4400-05	3.8300-04	5.8700-18	5.7700-01	4.6800-04
-.8	4.9200-01	8.3100-05	2.8400-04	3.6900-18	5.0700-01	3.6700-04
-.6	5.6000-01	7.9800-05	2.0800-04	2.2800-18	4.3900-01	2.8800-04
-.4	6.2400-01	7.5000-05	1.5000-04	1.3900-18	3.7600-01	2.2500-04
-.2	6.8200-01	6.8900-05	1.0700-04	8.3100-19	3.1800-01	1.7500-04
.0	7.3400-01	6.2100-05	7.4600-05	4.8900-19	2.6600-01	1.3700-04
.2	7.8000-01	5.5000-05	5.1600-05	2.8200-19	2.2000-01	1.0700-04
.4	8.1900-01	4.8000-05	3.5300-05	1.6000-19	1.8100-01	8.3300-05
.6	8.5200-01	4.1400-05	2.3900-05	8.9700-20	1.4800-01	6.5200-05
.8	8.8000-01	3.5200-05	1.6000-05	4.9400-20	1.2000-01	5.1200-05
1.0	9.0300-01	2.9800-05	1.0600-05	2.6800-20	9.6900-02	4.0400-05
1.2	9.2200-01	2.5000-05	7.0300-06	1.4400-20	7.7800-02	3.2000-05
1.4	9.3800-01	2.0900-05	4.6400-06	7.6000-21	6.2200-02	2.5600-05
1.6	9.5100-01	1.7500-05	3.0600-06	3.9700-21	4.9300-02	2.0600-05
1.8	9.6100-01	1.4800-05	2.0200-06	2.0400-21	3.8800-02	1.6800-05
2.0	9.7000-01	1.2700-05	1.3500-06	1.0300-21	3.0200-02	1.4100-05
2.2	9.7700-01	1.1200-05	9.1600-07	5.0500-22	2.3100-02	1.2100-05



T= 7500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.7350+00	3.6123+01	3.8858+01	9.7006+01	-5.1244+00	2.7352+00
-6.8	2.6116+00	3.3182+01	3.5793+01	9.2835+01	-4.9444+00	2.6118+00
-6.6	2.5043+00	3.0622+01	3.3126+01	8.9097+01	-4.7627+00	2.5044+00
-6.4	2.4127+00	2.8437+01	3.0850+01	8.5781+01	-4.5788+00	2.4128+00
-6.2	2.3356+00	2.6600+01	2.8936+01	8.2852+01	-4.3929+00	2.3358+00
-6.0	2.2717+00	2.5075+01	2.7347+01	8.0266+01	-4.2050+00	2.2718+00
-5.8	2.2190+00	2.3820+01	2.6039+01	7.7977+01	-4.0152+00	2.2192+00
-5.6	2.1760+00	2.2795+01	2.4971+01	7.5940+01	-3.8237+00	2.1762+00
-5.4	2.1411+00	2.1962+01	2.4103+01	7.4114+01	-3.6307+00	2.1412+00
-5.2	2.1128+00	2.1288+01	2.3401+01	7.2461+01	-3.4365+00	2.1129+00
-5.0	2.0900+00	2.0745+01	2.2835+01	7.0949+01	-3.2412+00	2.0901+00
-4.8	2.0716+00	2.0307+01	2.2378+01	6.9553+01	-3.0450+00	2.0716+00
-4.6	2.0566+00	1.9953+01	2.2010+01	6.8249+01	-2.8482+00	2.0567+00
-4.4	2.0444+00	1.9666+01	2.1711+01	6.7018+01	-2.6508+00	2.0445+00
-4.2	2.0342+00	1.9431+01	2.1465+01	6.5844+01	-2.4529+00	2.0343+00
-4.0	2.0255+00	1.9234+01	2.1259+01	6.4712+01	-2.2548+00	2.0255+00
-3.8	2.0175+00	1.9061+01	2.1078+01	6.3608+01	-2.0565+00	2.0175+00
-3.6	2.0095+00	1.8899+01	2.0908+01	6.2519+01	-1.8582+00	2.0096+00
-3.4	2.0007+00	1.8732+01	2.0733+01	6.1429+01	-1.6601+00	2.0008+00
-3.2	1.9900+00	1.8542+01	2.0532+01	6.0319+01	-1.4625+00	1.9900+00
-3.0	1.9757+00	1.8304+01	2.0280+01	5.9168+01	-1.2656+00	1.9757+00
-2.8	1.9561+00	1.7989+01	1.9945+01	5.7948+01	-1.0700+00	1.9561+00
-2.6	1.9289+00	1.7562+01	1.9491+01	5.6626+01	-8.7603-01	1.9289+00
-2.4	1.8919+00	1.6989+01	1.8881+01	5.5172+01	-6.8445-01	1.8919+00
-2.2	1.8435+00	1.6244+01	1.8088+01	5.3568+01	-4.9570-01	1.8435+00
-2.0	1.7835+00	1.5325+01	1.7109+01	5.1813+01	-3.1006-01	1.7835+00
-1.8	1.7136+00	1.4256+01	1.5969+01	4.9938+01	-1.2744-01	1.7135+00
-1.6	1.6369+00	1.3085+01	1.4722+01	4.7996+01	5.2680-02	1.6368+00
-1.4	1.5577+00	1.1877+01	1.3435+01	4.6052+01	2.3114-01	1.5576+00
-1.2	1.4800+00	1.0692+01	1.2172+01	4.4168+01	4.0891-01	1.4798+00
-1.0	1.4070+00	9.5792+00	1.0986+01	4.2390+01	5.8695-01	1.4068+00
-.8	1.3408+00	8.5701+00	9.9110+00	4.0749+01	7.6603-01	1.3405+00
-.6	1.2825+00	7.6806+00	8.9632+00	3.9256+01	9.4673-01	1.2821+00
-.4	1.2324+00	6.9138+00	8.1462+00	3.7910+01	1.1294+00	1.2317+00
-.2	1.1901+00	6.2641+00	7.4542+00	3.6703+01	1.3142+00	1.1890+00
.0	1.1549+00	5.7211+00	6.8761+00	3.5620+01	1.5012+00	1.1534+00
.2	1.1263+00	5.2722+00	6.3985+00	3.4646+01	1.6903+00	1.1238+00
.4	1.1034+00	4.9041+00	6.0075+00	3.3765+01	1.8814+00	1.0996+00
.6	1.0858+00	4.6042+00	5.6899+00	3.2961+01	2.0744+00	1.0799+00
.8	1.0730+00	4.3611+00	5.4342+00	3.2221+01	2.2693+00	1.0639+00
1.0	1.0653+00	4.1649+00	5.2302+00	3.1533+01	2.4661+00	1.0510+00
1.2	1.0629+00	4.0072+00	5.0701+00	3.0886+01	2.6652+00	1.0405+00
1.4	1.0673+00	3.8809+00	4.9482+00	3.0269+01	2.8669+00	1.0321+00
1.6	1.0806+00	3.7804+00	4.8610+00	2.9674+01	3.0723+00	1.0253+00
1.8	1.1070+00	3.7017+00	4.8082+00	2.9092+01	3.2828+00	1.0198+00
2.0	1.1528+00	3.6404+00	4.7932+00	2.8512+01	3.5004+00	1.0154+00
2.2	1.2287+00	3.5960+00	4.8247+00	2.7921+01	3.7281+00	1.0117+00

T= 7600

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.5800-07	7.8600-08	2.9300-01	6.3600-12	4.1400-01	2.9300-01
-6.8	7.4000-07	1.2200-07	2.5800-01	4.2100-12	4.8500-01	2.5800-01
-6.6	1.4600-06	1.8300-07	2.2400-01	2.7800-12	5.5300-01	2.2400-01
-6.4	2.7700-06	2.6700-07	1.9100-01	1.8300-12	6.1700-01	1.9100-01
-6.2	5.0700-06	3.7800-07	1.6200-01	1.2000-12	6.7600-01	1.6200-01
-6.0	9.0600-06	5.2400-07	1.3600-01	7.7900-13	7.2900-01	1.3600-01
-5.8	1.5800-05	7.1400-07	1.1300-01	5.0500-13	7.7500-01	1.1300-01
-5.6	2.7100-05	9.5900-07	9.2800-02	3.2600-13	8.1400-01	9.2800-02
-5.4	4.5700-05	1.2700-06	7.5900-02	2.0900-13	8.4800-01	7.5900-02
-5.2	7.6200-05	1.6700-06	6.1800-02	1.3400-13	8.7600-01	6.1800-02
-5.0	1.2600-04	2.1700-06	5.0000-02	8.5800-14	9.0000-01	5.0100-02
-4.8	2.0600-04	2.8100-06	4.0400-02	5.4700-14	9.1900-01	4.0400-02
-4.6	3.3400-04	3.6100-06	3.2500-02	3.4800-14	9.3500-01	3.2500-02
-4.4	5.4100-04	4.6300-06	2.6100-02	2.2200-14	9.4700-01	2.6100-02
-4.2	8.7000-04	5.9000-06	2.0900-02	1.4100-14	9.5700-01	2.0900-02
-4.0	1.4000-03	7.5000-06	1.6700-02	8.9300-15	9.6500-01	1.6700-02
-3.8	2.2300-03	9.5100-06	1.3300-02	5.6600-15	9.7100-01	1.3300-02
-3.6	3.5500-03	1.2000-05	1.0600-02	3.5900-15	9.7500-01	1.0700-02
-3.4	5.6300-03	1.5200-05	8.4800-03	2.2800-15	9.7700-01	8.5000-03
-3.2	8.8700-03	1.9000-05	6.7500-03	1.4400-15	9.7800-01	6.7700-03
-3.0	1.3900-02	2.3800-05	5.3700-03	9.1800-16	9.7500-01	5.4000-03
-2.8	2.1600-02	2.9600-05	4.2700-03	5.8400-16	9.7000-01	4.3000-03
-2.6	3.3200-02	3.6400-05	3.3900-03	3.7200-16	9.6000-01	3.4300-03
-2.4	5.0000-02	4.4200-05	2.6900-03	2.3800-16	9.4500-01	2.7300-03
-2.2	7.3800-02	5.2900-05	2.1300-03	1.5300-16	9.2200-01	2.1800-03
-2.0	1.0600-01	6.2000-05	1.6800-03	9.8600-17	8.9100-01	1.7400-03
-1.8	1.4700-01	7.0900-05	1.3200-03	6.3700-17	8.5000-01	1.3900-03
-1.6	1.9800-01	7.8900-05	1.0300-03	4.1200-17	8.0000-01	1.1100-03
-1.4	2.5700-01	8.5400-05	7.9300-04	2.6600-17	7.4100-01	8.7900-04
-1.2	3.2200-01	8.9900-05	6.0700-04	1.7100-17	6.7600-01	6.9700-04
-1.0	3.9100-01	9.1900-05	4.5900-04	1.0900-17	6.0700-01	5.5100-04
-.8	4.6200-01	9.1500-05	3.4300-04	6.8800-18	5.3700-01	4.3400-04
-.6	5.3100-01	8.8800-05	2.5200-04	4.2800-18	4.6800-01	3.4100-04
-.4	5.9700-01	8.4100-05	1.8300-04	2.6200-18	4.0300-01	2.6700-04
-.2	6.5800-01	7.7900-05	1.3100-04	1.5800-18	3.4200-01	2.0800-04
.0	7.1200-01	7.0800-05	9.2000-05	9.3500-19	2.8700-01	1.6300-04
.2	7.6100-01	6.3200-05	6.3900-05	5.4300-19	2.3900-01	1.2700-04
.4	8.0300-01	5.5400-05	4.3900-05	3.1100-19	1.9700-01	9.9300-05
.6	8.3800-01	4.8000-05	2.9800-05	1.7500-19	1.6200-01	7.7800-05
.8	8.6800-01	4.1100-05	2.0000-05	9.6700-20	1.3100-01	6.1100-05
1.0	8.9400-01	3.4800-05	1.3400-05	5.2800-20	1.0600-01	4.8200-05
1.2	9.1400-01	2.9300-05	8.8600-06	2.8400-20	8.5500-02	3.8200-05
1.4	9.3200-01	2.4600-05	5.8500-06	1.5100-20	6.8400-02	3.0500-05
1.6	9.4600-01	2.0700-05	3.8700-06	7.9200-21	5.4300-02	2.4600-05
1.8	9.5700-01	1.7500-05	2.5600-06	4.0800-21	4.2800-02	2.0100-05
2.0	9.6700-01	1.5100-05	1.7100-06	2.0700-21	3.3300-02	1.6800-05
2.2	9.7400-01	1.3300-05	1.1600-06	1.0200-21	2.5500-02	1.4500-05

T= 7600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.8277+00	3.7903+01	4.0731+01	9.9277+01	-5.1041+00	2.8280+00
-6.8	2.6940+00	3.4755+01	3.7449+01	9.4858+01	-4.9252+00	2.6942+00
-6.6	2.5757+00	3.1970+01	3.4546+01	9.0860+01	-4.7447+00	2.5759+00
-6.4	2.4735+00	2.9563+01	3.2036+01	8.7291+01	-4.5623+00	2.4736+00
-6.2	2.3866+00	2.7518+01	2.9905+01	8.4128+01	-4.3778+00	2.3868+00
-6.0	2.3139+00	2.5807+01	2.8121+01	8.1335+01	-4.1912+00	2.3141+00
-5.8	2.2538+00	2.4391+01	2.6645+01	7.8867+01	-4.0027+00	2.2539+00
-5.6	2.2044+00	2.3228+01	2.5432+01	7.6678+01	-3.8123+00	2.2045+00
-5.4	2.1641+00	2.2280+01	2.4444+01	7.4725+01	-3.6203+00	2.1642+00
-5.2	2.1314+00	2.1511+01	2.3642+01	7.2967+01	-3.4269+00	2.1315+00
-5.0	2.1050+00	2.0889+01	2.2994+01	7.1370+01	-3.2323+00	2.1051+00
-4.8	2.0836+00	2.0388+01	2.2472+01	6.9904+01	-3.0368+00	2.0837+00
-4.6	2.0664+00	1.9984+01	2.2050+01	6.8544+01	-2.8404+00	2.0665+00
-4.4	2.0523+00	1.9657+01	2.1709+01	6.7269+01	-2.6433+00	2.0524+00
-4.2	2.0408+00	1.9390+01	2.1431+01	6.6060+01	-2.4458+00	2.0409+00
-4.0	2.0310+00	1.9169+01	2.1200+01	6.4902+01	-2.2479+00	2.0311+00
-3.8	2.0224+00	1.8981+01	2.1003+01	6.3780+01	-2.0497+00	2.0225+00
-3.6	2.0142+00	1.8811+01	2.0825+01	6.2680+01	-1.8515+00	2.0143+00
-3.4	2.0057+00	1.8645+01	2.0650+01	6.1589+01	-1.6533+00	2.0057+00
-3.2	1.9957+00	1.8465+01	2.0461+01	6.0488+01	-1.4555+00	1.9958+00
-3.0	1.9830+00	1.8250+01	2.0233+01	5.9357+01	-1.2583+00	1.9831+00
-2.8	1.9659+00	1.7973+01	1.9939+01	5.8170+01	-1.0620+00	1.9659+00
-2.6	1.9422+00	1.7602+01	1.9544+01	5.6899+01	-8.6730-01	1.9422+00
-2.4	1.9096+00	1.7100+01	1.9010+01	5.5510+01	-6.7464-01	1.9096+00
-2.2	1.8662+00	1.6439+01	1.8305+01	5.3979+01	-4.8462-01	1.8662+00
-2.0	1.8112+00	1.5604+01	1.7415+01	5.2296+01	-2.9763-01	1.8112+00
-1.8	1.7452+00	1.4606+01	1.6352+01	5.0480+01	-1.1374-01	1.7452+00
-1.6	1.6709+00	1.3486+01	1.5157+01	4.8572+01	6.7373-02	1.6709+00
-1.4	1.5923+00	1.2300+01	1.3892+01	4.6635+01	2.4643-01	1.5922+00
-1.2	1.5135+00	1.1112+01	1.2626+01	4.4732+01	4.2438-01	1.5133+00
-1.0	1.4381+00	9.9766+00	1.1415+01	4.2917+01	6.0219-01	1.4379+00
-.8	1.3688+00	8.9322+00	1.0301+01	4.1227+01	7.8074-01	1.3685+00
-.6	1.3070+00	8.0009+00	9.3079+00	3.9680+01	9.6069-01	1.3065+00
-.4	1.2534+00	7.1908+00	8.4441+00	3.8281+01	1.1425+00	1.2527+00
-.2	1.2077+00	6.4995+00	7.7073+00	3.7023+01	1.3264+00	1.2067+00
.0	1.1697+00	5.9187+00	7.0883+00	3.5895+01	1.5125+00	1.1681+00
.2	1.1384+00	5.4363+00	6.5747+00	3.4881+01	1.7007+00	1.1360+00
.4	1.1134+00	5.0394+00	6.1527+00	3.3966+01	1.8910+00	1.1095+00
.6	1.0939+00	4.7151+00	5.8090+00	3.3134+01	2.0834+00	1.0880+00
.8	1.0796+00	4.4518+00	5.5314+00	3.2370+01	2.2777+00	1.0704+00
1.0	1.0705+00	4.2389+00	5.3094+00	3.1663+01	2.4740+00	1.0562+00
1.2	1.0672+00	4.0674+00	5.1346+00	3.0999+01	2.6726+00	1.0447+00
1.4	1.0707+00	3.9299+00	5.0006+00	3.0370+01	2.8741+00	1.0354+00
1.6	1.0833+00	3.8202+00	4.9036+00	2.9765+01	3.0792+00	1.0279+00
1.8	1.1091+00	3.7336+00	4.8427+00	2.9174+01	3.2894+00	1.0219+00
2.0	1.1544+00	3.6667+00	4.8211+00	2.8587+01	3.5068+00	1.0170+00
2.2	1.2298+00	3.6174+00	4.8472+00	2.7990+01	3.7343+00	1.0129+00

T= 7700

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.4000-07	6.6100-08	3.1600-01	1.1300-11	3.6800-01	3.1600-01
-6.8	5.1400-07	1.0500-07	2.8100-01	7.4800-12	4.3800-01	2.8100-01
-6.6	1.0400-06	1.6200-07	2.4600-01	4.9500-12	5.0800-01	2.4600-01
-6.4	2.0300-06	2.4000-07	2.1300-01	3.2600-12	5.7500-01	2.1300-01
-6.2	3.8000-06	3.4600-07	1.8100-01	2.1400-12	6.3700-01	1.8100-01
-6.0	6.9100-06	4.8700-07	1.5300-01	1.4000-12	6.9400-01	1.5300-01
-5.8	1.2200-05	6.7100-07	1.2800-01	9.0900-13	7.4500-01	1.2800-01
-5.6	2.1200-05	9.0900-07	1.0600-01	5.8800-13	7.8900-01	1.0600-01
-5.4	3.6100-05	1.2200-06	8.6800-02	3.7900-13	8.2600-01	8.6800-02
-5.2	6.0700-05	1.6100-06	7.0900-02	2.4400-13	8.5800-01	7.0900-02
-5.0	1.0100-04	2.1000-06	5.7600-02	1.5600-13	8.8500-01	5.7600-02
-4.8	1.6600-04	2.7300-06	4.6600-02	9.9600-14	9.0700-01	4.6600-02
-4.6	2.7100-04	3.5200-06	3.7600-02	6.3500-14	9.2500-01	3.7600-02
-4.4	4.3900-04	4.5200-06	3.0200-02	4.0400-14	9.3900-01	3.0200-02
-4.2	7.0900-04	5.7800-06	2.4200-02	2.5700-14	9.5100-01	2.4200-02
-4.0	1.1400-03	7.3700-06	1.9400-02	1.6300-14	9.6000-01	1.9400-02
-3.8	1.8200-03	9.3600-06	1.5500-02	1.0400-14	9.6700-01	1.5500-02
-3.6	2.9100-03	1.1900-05	1.2400-02	6.5700-15	9.7200-01	1.2400-02
-3.4	4.6200-03	1.5000-05	9.8600-03	4.1700-15	9.7600-01	9.8600-03
-3.2	7.3200-03	1.8800-05	7.8600-03	2.6400-15	9.7700-01	7.8600-03
-3.0	1.1500-02	2.3600-05	6.2600-03	1.6800-15	9.7600-01	6.2600-03
-2.8	1.7900-02	2.9400-05	4.9800-03	1.0700-15	9.7200-01	5.0100-03
-2.6	2.7700-02	3.6400-05	3.9500-03	6.8000-16	9.6400-01	3.9900-03
-2.4	4.2100-02	4.4400-05	3.1400-03	4.3500-16	9.5200-01	3.1800-03
-2.2	6.2800-02	5.3600-05	2.4800-03	2.7900-16	9.3200-01	2.5400-03
-2.0	9.1200-02	6.3300-05	1.9600-03	1.7900-16	9.0500-01	7.0300-03
-1.8	1.2900-01	7.3200-05	1.5400-03	1.1600-16	8.6800-01	1.6200-03
-1.6	1.7500-01	8.2400-05	1.2100-03	7.4900-17	8.2200-01	1.2900-03
-1.4	2.3100-01	9.0300-05	9.3600-04	4.8400-17	7.6700-01	1.0300-03
-1.2	2.9400-01	9.6100-05	7.1900-04	3.1200-17	7.0400-01	8.1500-04
-1.0	3.6200-01	9.9400-05	5.4700-04	1.9900-17	6.3700-01	6.4600-04
-.8	4.3200-01	1.0000-04	4.1000-04	1.2600-17	5.6700-01	5.1000-04
-.6	5.0200-01	9.8000-05	3.0300-04	7.9000-18	4.9700-01	4.0100-04
-.4	5.7000-01	9.3700-05	2.2100-04	4.8700-18	4.3000-01	3.1500-04
-.2	6.3300-01	8.7600-05	1.5900-04	2.9500-18	3.6700-01	2.4600-04
.0	6.9000-01	8.0200-05	1.1200-04	1.7600-18	3.1000-01	1.9300-04
.2	7.4100-01	7.2000-05	7.8600-05	1.0300-18	2.5900-01	1.5100-04
.4	7.8600-01	6.3600-05	5.4200-05	5.9100-19	2.1400-01	1.1800-04
.6	8.2400-01	5.5400-05	3.6900-05	3.3400-19	1.7600-01	9.2300-05
.8	8.5600-01	4.7600-05	2.4900-05	1.8600-19	1.4300-01	7.2500-05
1.0	8.8400-01	4.0500-05	1.6700-05	1.0200-19	1.1600-01	5.7200-05
1.2	9.0600-01	3.4300-05	1.1100-05	5.5200-20	9.3600-02	4.5400-05
1.4	9.2500-01	2.8900-05	7.3500-06	2.9500-20	7.5000-02	3.6200-05
1.6	9.4000-01	2.4300-05	4.8600-06	1.5500-20	5.9600-02	2.9200-05
1.8	9.5300-01	2.0600-05	3.2200-06	8.0400-21	4.7000-02	2.3900-05
2.0	9.6300-01	1.7800-05	2.1500-06	4.0800-21	3.6600-02	1.9900-05
2.2	9.7200-01	1.5700-05	1.4600-06	2.0200-21	2.8000-02	1.7200-05

I = 7700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	2.9240+00	3.9721+01	4.2645+01	1.0160+02	-5.0839+00	2.9242+00
-6.8	2.7812+00	3.6401+01	3.9183+01	9.6969+01	-4.9057+00	2.7814+00
-6.6	2.6525+00	3.3409+01	3.6062+01	9.2727+01	-4.7263+00	2.6527+00
-6.4	2.5396+00	3.0785+01	3.3324+01	8.8907+01	-4.5451+00	2.5398+00
-6.2	2.4426+00	2.8530+01	3.0973+01	8.5506+01	-4.3621+00	2.4428+00
-6.0	2.3607+00	2.6626+01	2.8987+01	8.2496+01	-4.1769+00	2.3609+00
-5.8	2.2924+00	2.5039+01	2.7331+01	7.9838+01	-3.9896+00	2.2926+00
-5.6	2.2361+00	2.3728+01	2.5965+01	7.7485+01	-3.8004+00	2.2362+00
-5.4	2.1899+00	2.2656+01	2.4846+01	7.5394+01	-3.6095+00	2.1901+00
-5.2	2.1523+00	2.1783+01	2.3935+01	7.3521+01	-3.4170+00	2.1525+00
-5.0	2.1219+00	2.1075+01	2.3197+01	7.1830+01	-3.2232+00	2.1220+00
-4.8	2.0973+00	2.0504+01	2.2601+01	7.0287+01	-3.0283+00	2.0974+00
-4.6	2.0774+00	2.0043+01	2.2120+01	6.8865+01	-2.8324+00	2.0775+00
-4.4	2.0612+00	1.9671+01	2.1732+01	6.7540+01	-2.6358+00	2.0613+00
-4.2	2.0481+00	1.9369+01	2.1417+01	6.6292+01	-2.4386+00	2.0481+00
-4.0	2.0371+00	1.9121+01	2.1158+01	6.5104+01	-2.2409+00	2.0372+00
-3.8	2.0277+00	1.8913+01	2.0941+01	6.3960+01	-2.0429+00	2.0277+00
-3.6	2.0190+00	1.8731+01	2.0750+01	6.2846+01	-1.8448+00	2.0191+00
-3.4	2.0105+00	1.8561+01	2.0571+01	6.1748+01	-1.6466+00	2.0105+00
-3.2	2.0010+00	1.8386+01	2.0387+01	6.0650+01	-1.4487+00	2.0011+00
-3.0	1.9895+00	1.8188+01	2.0177+01	5.9532+01	-1.2512+00	1.9896+00
-2.8	1.9744+00	1.7940+01	1.9915+01	5.8372+01	-1.0545+00	1.9744+00
-2.6	1.9536+00	1.7615+01	1.9568+01	5.7141+01	-8.5908-01	1.9536+00
-2.4	1.9249+00	1.7175+01	1.9100+01	5.5809+01	-6.6549-01	1.9250+00
-2.2	1.8863+00	1.6590+01	1.8476+01	5.4346+01	-4.7431-01	1.8863+00
-2.0	1.8361+00	1.5836+01	1.7673+01	5.2734+01	-2.8601-01	1.8361+00
-1.8	1.7745+00	1.4914+01	1.6689+01	5.0981+01	-1.0084-01	1.7744+00
-1.6	1.7032+00	1.3852+01	1.5555+01	4.9117+01	8.1367-02	1.7032+00
-1.4	1.6259+00	1.2699+01	1.4325+01	4.7197+01	2.6119-01	1.6258+00
-1.2	1.5466+00	1.1518+01	1.3065+01	4.5286+01	4.3948-01	1.5465+00
-1.0	1.4694+00	1.0369+01	1.1838+01	4.3442+01	6.1723-01	1.4692+00
-.8	1.3973+00	9.2947+00	1.0692+01	4.1708+01	7.9538-01	1.3970+00
-.6	1.3322+00	8.3254+00	9.6576+00	4.0111+01	9.7467-01	1.3318+00
-.4	1.2752+00	7.4740+00	8.7492+00	3.8659+01	1.1557+00	1.2745+00
-.2	1.2263+00	6.7420+00	7.9682+00	3.7352+01	1.3387+00	1.2252+00
.0	1.1852+00	6.1231+00	7.3083+00	3.6178+01	1.5239+00	1.1835+00
.2	1.1513+00	5.6068+00	6.7581+00	3.5124+01	1.7113+00	1.1488+00
.4	1.1239+00	5.1804+00	6.3043+00	3.4174+01	1.9008+00	1.1200+00
.6	1.1024+00	4.8311+00	5.9335+00	3.3312+01	2.0924+00	1.0965+00
.8	1.0866+00	4.5467+00	5.6333+00	3.2524+01	2.2861+00	1.0773+00
1.0	1.0762+00	4.3163+00	5.3925+00	3.1796+01	2.4820+00	1.0618+00
1.2	1.0717+00	4.1305+00	5.2022+00	3.1116+01	2.6802+00	1.0492+00
1.4	1.0743+00	3.9812+00	5.0555+00	3.0472+01	2.8812+00	1.0390+00
1.6	1.0862+00	3.8620+00	4.9482+00	2.9856+01	3.0860+00	1.0308+00
1.8	1.1113+00	3.7676+00	4.8789+00	2.9256+01	3.2959+00	1.0241+00
2.0	1.1561+00	3.6942+00	4.8504+00	2.8662+01	3.5131+00	1.0187+00
2.2	1.2311+00	3.6397+00	4.8707+00	2.8059+01	3.7404+00	1.0142+00

T= 7800

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.5900-07	5.4700-08	3.3800-01	1.9700-11	3.2300-01	3.3800-01
-6.8	3.5200-07	8.9800-08	3.0400-01	1.3100-11	3.9300-01	3.0400-01
-6.6	7.3900-07	1.4100-07	2.6900-01	8.6600-12	4.6300-01	2.6900-01
-6.4	1.4800-06	2.1400-07	2.3400-01	5.7300-12	5.3200-01	2.3400-01
-6.2	2.8300-06	3.1400-07	2.0100-01	3.7700-12	5.9800-01	2.0100-01
-6.0	5.2400-06	4.4900-07	1.7100-01	2.4700-12	6.5800-01	1.7100-01
-5.8	9.4400-06	6.2700-07	1.4400-01	1.6100-12	7.1300-01	1.4400-01
-5.6	1.6600-05	8.5900-07	1.2000-01	1.0500-12	7.6100-01	1.2000-01
-5.4	2.8600-05	1.1600-06	9.8700-02	6.7500-13	8.0300-01	9.8700-02
-5.2	4.8400-05	1.5400-06	8.0900-02	4.3500-13	8.3800-01	8.0900-02
-5.0	8.1000-05	2.0300-06	6.5900-02	2.7900-13	8.6800-01	6.5900-02
-4.8	1.3400-04	2.6500-06	5.3500-02	1.7900-13	8.9300-01	5.3500-02
-4.6	2.2000-04	3.4300-06	4.3200-02	1.1400-13	9.1300-01	4.3200-02
-4.4	3.5800-04	4.4200-06	3.4800-02	7.2600-14	9.3000-01	3.4800-02
-4.2	5.8000-04	5.6600-06	2.7900-02	4.6200-14	9.4400-01	2.8000-02
-4.0	9.3400-04	7.2300-06	2.2400-02	2.9400-14	9.5400-01	2.2400-02
-3.8	1.5000-03	9.2000-06	1.7900-02	1.8600-14	9.6300-01	1.7900-02
-3.6	2.4000-03	1.1700-05	1.4300-02	1.1800-14	9.6900-01	1.4300-02
-3.4	3.8200-03	1.4800-05	1.1400-02	7.5100-15	9.7300-01	1.1400-02
-3.2	6.0500-03	1.8600-05	9.1100-03	4.7600-15	9.7600-01	9.1300-03
-3.0	9.5400-03	2.3400-05	7.2500-03	3.0200-15	9.7600-01	7.2800-03
-2.8	1.4900-02	2.9200-05	5.7700-03	1.9200-15	9.7300-01	5.8000-03
-2.6	2.3200-02	3.6200-05	4.5900-03	1.2200-15	9.6800-01	4.6300-03
-2.4	3.5500-02	4.4500-05	3.6400-03	7.8100-16	9.5700-01	3.6900-03
-2.2	5.3400-02	5.4000-05	2.8900-03	5.0000-16	9.4100-01	2.9400-03
-2.0	7.8400-02	6.4400-05	2.2800-03	3.2100-16	9.1700-01	2.3500-03
-1.8	1.1200-01	7.5200-05	1.8000-03	2.0700-16	8.8400-01	1.8700-03
-1.6	1.5500-01	8.5600-05	1.4100-03	1.3400-16	8.4200-01	1.5000-03
-1.4	2.0700-01	9.4800-05	1.1000-03	8.6700-17	7.9100-01	1.1900-03
-1.2	2.6700-01	1.0200-04	8.4700-04	5.5900-17	7.3100-01	9.4900-04
-1.0	3.3300-01	1.0700-04	6.4700-04	3.5900-17	6.6500-01	7.5300-04
-.8	4.0300-01	1.0900-04	4.8700-04	2.2800-17	5.9600-01	5.9600-04
-.6	4.7300-01	1.0800-04	3.6200-04	1.4300-17	5.2600-01	4.7000-04
-.4	5.4200-01	1.0400-04	2.6600-04	8.8700-18	4.5700-01	3.7000-04
-.2	6.0700-01	9.7900-05	1.9200-04	5.4100-18	3.9200-01	2.9000-04
.0	6.6700-01	9.0300-05	1.3700-04	3.2400-18	3.3300-01	2.2700-04
.2	7.2100-01	8.1700-05	9.5900-05	1.9100-18	2.7900-01	1.7800-04
.4	7.6800-01	7.2600-05	6.6500-05	1.1000-18	2.3200-01	1.3900-04
.6	8.0900-01	6.3500-05	4.5500-05	6.2800-19	1.9100-01	1.0900-04
.8	8.4400-01	5.4900-05	3.0800-05	3.5200-19	1.5600-01	8.5700-05
1.0	8.7300-01	4.6900-05	2.0700-05	1.9400-19	1.2700-01	6.7600-05
1.2	8.9800-01	3.9800-05	1.3800-05	1.0500-19	1.0200-01	5.3600-05
1.4	9.1800-01	3.3700-05	9.1600-06	5.6500-20	8.2000-02	4.2800-05
1.6	9.3500-01	2.8500-05	6.0700-06	2.9900-20	6.5300-02	3.4500-05
1.8	9.4800-01	2.4200-05	4.0300-06	1.5500-20	5.1500-02	2.8200-05
2.0	9.6000-01	2.0900-05	2.7000-06	7.9400-21	4.0200-02	2.3600-05
2.2	9.6900-01	1.8500-05	1.8300-06	3.9500-21	3.0800-02	2.0400-05

T= 7800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.0223+00	4.1543+01	4.4565+01	1.0395+02	-5.0640+00	3.0226+00
-6.8	2.8722+00	3.8096+01	4.0969+01	9.9145+01	-4.8861+00	2.8725+00
-6.6	2.7341+00	3.4925+01	3.7659+01	9.4683+01	-4.7075+00	2.7343+00
-6.4	2.6108+00	3.2095+01	3.4706+01	9.0623+01	-4.5275+00	2.6111+00
-6.2	2.5036+00	2.9633+01	3.2137+01	8.6984+01	-4.3457+00	2.5038+00
-6.0	2.4121+00	2.7532+01	2.9944+01	8.3751+01	-4.1619+00	2.4123+00
-5.8	2.3352+00	2.5766+01	2.8101+01	8.0892+01	-3.9760+00	2.3354+00
-5.6	2.2713+00	2.4299+01	2.6570+01	7.8365+01	-3.7880+00	2.2715+00
-5.4	2.2187+00	2.3092+01	2.5310+01	7.6125+01	-3.5982+00	2.2189+00
-5.2	2.1758+00	2.2106+01	2.4281+01	7.4127+01	-3.4067+00	2.1759+00
-5.0	2.1408+00	2.1304+01	2.3445+01	7.2332+01	-3.2137+00	2.1410+00
-4.8	2.1126+00	2.0656+01	2.2769+01	7.0705+01	-3.0195+00	2.1127+00
-4.6	2.0897+00	2.0133+01	2.2222+01	6.9214+01	-2.8242+00	2.0898+00
-4.4	2.0712+00	1.9710+01	2.1781+01	6.7834+01	-2.6281+00	2.0713+00
-4.2	2.0562+00	1.9368+01	2.1424+01	6.6541+01	-2.4312+00	2.0563+00
-4.0	2.0438+00	1.9089+01	2.1133+01	6.5319+01	-2.2339+00	2.0439+00
-3.8	2.0333+00	1.8858+01	2.0892+01	6.4149+01	-2.0361+00	2.0334+00
-3.6	2.0241+00	1.8661+01	2.0685+01	6.3017+01	-1.8381+00	2.0241+00
-3.4	2.0153+00	1.8482+01	2.0498+01	6.1909+01	-1.6400+00	2.0153+00
-3.2	2.0061+00	1.8308+01	2.0314+01	6.0809+01	-1.4420+00	2.0061+00
-3.0	1.9954+00	1.8120+01	2.0115+01	5.9699+01	-1.2443+00	1.9954+00
-2.8	1.9818+00	1.7895+01	1.9877+01	5.8558+01	-1.0472+00	1.9818+00
-2.6	1.9635+00	1.7607+01	1.9570+01	5.7361+01	-8.5128-01	1.9635+00
-2.4	1.9383+00	1.7221+01	1.9159+01	5.6076+01	-6.5689-01	1.9383+00
-2.2	1.9039+00	1.6704+01	1.8608+01	5.4674+01	-4.6466-01	1.9039+00
-2.0	1.8585+00	1.6028+01	1.7886+01	5.3131+01	-2.7514-01	1.8585+00
-1.8	1.8014+00	1.5182+01	1.6984+01	5.1443+01	-8.8689-02	1.8014+00
-1.6	1.7338+00	1.4184+01	1.5917+01	4.9630+01	9.4689-02	1.7337+00
-1.4	1.6585+00	1.3073+01	1.4732+01	4.7738+01	2.7540-01	1.6584+00
-1.2	1.5794+00	1.1910+01	1.3490+01	4.5829+01	4.5420-01	1.5793+00
-1.0	1.5009+00	1.0755+01	1.2256+01	4.3965+01	6.3206-01	1.5007+00
-.8	1.4264+00	9.6577+00	1.1084+01	4.2194+01	8.0993-01	1.4261+00
-.6	1.3583+00	8.6545+00	1.0013+01	4.0550+01	9.8868-01	1.3578+00
-.4	1.2979+00	7.7640+00	9.0619+00	3.9048+01	1.1689+00	1.2972+00
-.2	1.2457+00	6.9921+00	8.2378+00	3.7691+01	1.3511+00	1.2446+00
.0	1.2015+00	6.3354+00	7.5369+00	3.6471+01	1.5354+00	1.1998+00
.2	1.1648+00	5.7846+00	6.9494+00	3.5375+01	1.7220+00	1.1623+00
.4	1.1351+00	5.3280+00	6.4630+00	3.4389+01	1.9107+00	1.1312+00
.6	1.1116+00	4.9527+00	6.0643+00	3.3497+01	2.1016+00	1.1056+00
.8	1.0940+00	4.6464+00	5.7404+00	3.2683+01	2.2947+00	1.0847+00
1.0	1.0822+00	4.3978+00	5.4799+00	3.1934+01	2.4900+00	1.0677+00
1.2	1.0765+00	4.1969+00	5.2734+00	3.1236+01	2.6877+00	1.0539+00
1.4	1.0782+00	4.0352+00	5.1134+00	3.0579+01	2.8884+00	1.0428+00
1.6	1.0893+00	3.9058+00	4.9952+00	2.9950+01	3.0928+00	1.0338+00
1.8	1.1138+00	3.8032+00	4.9170+00	2.9341+01	3.3025+00	1.0265+00
2.0	1.1580+00	3.7231+00	4.8811+00	2.8739+01	3.5194+00	1.0205+00
2.2	1.2324+00	3.6630+00	4.8954+00	2.8130+01	3.7464+00	1.0157+00

T= 7900

LDG D	N2	N2+	N+	N++	N	E
-7.0	1.0300-07	4.4700-08	3.5900-01	3.3900-11	2.8200-01	3.5900-01
-6.8	2.3800-07	7.5600-08	3.2600-01	2.2500-11	3.4900-01	3.2600-01
-6.6	5.1700-07	1.2200-07	2.9100-01	1.4900-11	4.1800-01	2.9100-01
-6.4	1.0600-06	1.8900-07	2.5600-01	9.8900-12	4.8900-01	2.5600-01
-6.2	2.0900-06	2.8300-07	2.2200-01	6.5300-12	5.5700-01	2.2200-01
-6.0	3.9600-06	4.1100-07	1.9000-01	4.2900-12	6.2100-01	1.9000-01
-5.8	7.2600-06	5.8200-07	1.6000-01	2.8100-12	6.7900-01	1.6000-01
-5.6	1.2900-05	8.0700-07	1.3400-01	1.8300-12	7.3100-01	1.3400-01
-5.4	2.2600-05	1.1000-06	1.1100-01	1.1800-12	7.7700-01	1.1100-01
-5.2	3.8600-05	1.4700-06	9.1800-02	7.6400-13	8.1600-01	9.1800-02
-5.0	6.5100-05	1.9500-06	7.5100-02	4.9100-13	8.5000-01	7.5100-02
-4.8	1.0800-04	2.5600-06	6.1100-02	3.1500-13	8.7800-01	6.1100-02
-4.6	1.7900-04	3.3300-06	4.9500-02	2.0100-13	9.0100-01	4.9500-02
-4.4	2.9200-04	4.3100-06	3.9900-02	1.2800-13	9.2000-01	3.9900-02
-4.2	4.7500-04	5.5400-06	3.2100-02	8.1800-14	9.3500-01	3.2100-02
-4.0	7.6800-04	7.0900-06	2.5800-02	5.2000-14	9.4800-01	2.5800-02
-3.8	1.2400-03	9.0400-06	2.0600-02	3.3100-14	9.5700-01	2.0600-02
-3.6	1.9800-03	1.1500-05	1.6500-02	2.1000-14	9.6500-01	1.6500-02
-3.4	3.1600-03	1.4600-05	1.3200-02	1.3300-14	9.7000-01	1.3200-02
-3.2	5.0200-03	1.8400-05	1.0500-02	8.4600-15	9.7400-01	1.0500-02
-3.0	7.9300-03	2.3100-05	8.3800-03	5.3700-15	9.7500-01	8.4000-03
-2.8	1.2500-02	2.9000-05	6.6700-03	3.4100-15	9.7400-01	6.7000-03
-2.6	1.9400-02	3.6100-05	5.3100-03	2.1700-15	9.7000-01	5.3400-03
-2.4	2.9900-02	4.4600-05	4.2200-03	1.3900-15	9.6200-01	4.2600-03
-2.2	4.5400-02	5.4400-05	3.3500-03	8.8600-16	9.4800-01	3.4000-03
-2.0	6.7300-02	6.5300-05	2.6500-03	5.6900-16	9.2700-01	2.7100-03
-1.8	9.7300-02	7.6900-05	2.0900-03	3.6600-16	8.9800-01	2.1700-03
-1.6	1.3600-01	8.8500-05	1.6400-03	2.3700-16	8.6000-01	1.7300-03
-1.4	1.8500-01	9.9100-05	1.2800-03	1.5300-16	8.1200-01	1.3800-03
-1.2	2.4200-01	1.0800-04	9.9200-04	9.8800-17	7.5600-01	1.1000-03
-1.0	3.0600-01	1.1400-04	7.6100-04	6.3500-17	6.9200-01	8.7500-04
-.8	3.7500-01	1.1700-04	5.7600-04	4.0500-17	6.2400-01	6.9300-04
-.6	4.4500-01	1.1700-04	4.3100-04	2.5600-17	5.5400-01	5.4800-04
-.4	5.1500-01	1.1400-04	3.1700-04	1.5900-17	4.8400-01	4.3200-04
-.2	5.8100-01	1.0900-04	2.3000-04	9.7600-18	4.1800-01	3.3900-04
.0	6.4400-01	1.0100-04	1.6500-04	5.8800-18	3.5600-01	2.6600-04
.2	7.0000-01	9.2200-05	1.1600-04	3.4800-18	3.0000-01	2.0900-04
.4	7.5000-01	8.2500-05	8.1000-05	2.0300-18	2.5000-01	1.6300-04
.6	7.9300-01	7.2600-05	5.5700-05	1.1600-18	2.0600-01	1.2800-04
.8	8.3100-01	6.3100-05	3.7900-05	6.5300-19	1.6900-01	1.0100-04
1.0	8.6200-01	5.4100-05	2.5500-05	3.6200-19	1.3800-01	7.9700-05
1.2	8.8900-01	4.6100-05	1.7100-05	1.9800-19	1.1100-01	6.3200-05
1.4	9.1000-01	3.9100-05	1.1400-05	1.0700-19	8.9400-02	5.0500-05
1.6	9.2900-01	3.3700-05	7.5400-06	5.6600-20	7.1300-02	4.0700-05
1.8	9.4400-01	2.8300-05	5.0200-06	2.9600-20	5.6300-02	3.3300-05
2.0	9.5600-01	2.4500-05	3.3600-06	1.5200-20	4.4000-02	2.7800-05
2.2	9.6600-01	2.1700-05	2.2800-06	7.5800-21	3.3700-02	2.4000-05



T= 7900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.1210+00	4.3327+01	4.6448+01	1.0627+02	-5.0445+00	3.1213+00
-6.8	2.9658+00	3.9809+01	4.2775+01	1.0135+02	-4.8666+00	2.9662+00
-6.6	2.8197+00	3.6494+01	3.9314+01	9.6707+01	-4.6886+00	2.8200+00
-6.4	2.6868+00	3.3481+01	3.6167+01	9.2426+01	-4.5095+00	2.6871+00
-6.2	2.5694+00	3.0819+01	3.3388+01	8.8554+01	-4.3289+00	2.5697+00
-6.0	2.4681+00	2.8520+01	3.0988+01	8.5096+01	-4.1464+00	2.4683+00
-5.8	2.3821+00	2.6570+01	2.8952+01	8.2030+01	-3.9618+00	2.3823+00
-5.6	2.3102+00	2.4939+01	2.7249+01	7.9319+01	-3.7751+00	2.3104+00
-5.4	2.2507+00	2.3589+01	2.5840+01	7.6920+01	-3.5865+00	2.2509+00
-5.2	2.2018+00	2.2482+01	2.4684+01	7.4787+01	-3.3960+00	2.2020+00
-5.0	2.1620+00	2.1579+01	2.3741+01	7.2880+01	-3.2039+00	2.1622+00
-4.8	2.1297+00	2.0847+01	2.2976+01	7.1160+01	-3.0105+00	2.1299+00
-4.6	2.1035+00	2.0254+01	2.2358+01	6.9593+01	-2.8158+00	2.1037+00
-4.4	2.0824+00	1.9776+01	2.1859+01	6.8151+01	-2.6202+00	2.0825+00
-4.2	2.0652+00	1.9390+01	2.1455+01	6.6810+01	-2.4238+00	2.0653+00
-4.0	2.0512+00	1.9076+01	2.1127+01	6.5548+01	-2.2268+00	2.0513+00
-3.8	2.0395+00	1.8818+01	2.0858+01	6.4349+01	-2.0293+00	2.0396+00
-3.6	2.0294+00	1.8602+01	2.0631+01	6.3195+01	-1.8314+00	2.0295+00
-3.4	2.0202+00	1.8412+01	2.0432+01	6.2073+01	-1.6334+00	2.0202+00
-3.2	2.0110+00	1.8234+01	2.0245+01	6.0967+01	-1.4354+00	2.0111+00
-3.0	2.0008+00	1.8051+01	2.0052+01	5.9860+01	-1.2376+00	2.0009+00
-2.8	1.9884+00	1.7842+01	1.9831+01	5.8733+01	-1.0403+00	1.9885+00
-2.6	1.9721+00	1.7583+01	1.9555+01	5.7561+01	-8.4384-01	1.9722+00
-2.4	1.9499+00	1.7242+01	1.9192+01	5.6317+01	-6.4877-01	1.9499+00
-2.2	1.9194+00	1.6785+01	1.8705+01	5.4969+01	-4.5562-01	1.9194+00
-2.0	1.8785+00	1.6181+01	1.8060+01	5.3490+01	-2.6496-01	1.8785+00
-1.8	1.8261+00	1.5412+01	1.7238+01	5.1867+01	-7.7256-02	1.8261+00
-1.6	1.7624+00	1.4481+01	1.6244+01	5.0110+01	1.0733-01	1.7623+00
-1.4	1.6897+00	1.3421+01	1.5111+01	4.8255+01	2.8903-01	1.6896+00
-1.2	1.6116+00	1.2784+01	1.3896+01	4.6358+01	4.6849-01	1.6115+00
-1.0	1.5324+00	1.1132+01	1.2664+01	4.4481+01	6.4661-01	1.5322+00
-.8	1.4559+00	1.0019+01	1.1475+01	4.2680+01	8.2437-01	1.4556+00
-.6	1.3850+00	8.9865+00	1.0371+01	4.0994+01	1.0027+00	1.3845+00
-.4	1.3214+00	8.0598+00	9.3812+00	3.9445+01	1.1823+00	1.3207+00
-.2	1.2659+00	7.2493+00	8.5153+00	3.8039+01	1.3636+00	1.2648+00
.0	1.2187+00	6.5549+00	7.7736+00	3.6772+01	1.5471+00	1.2170+00
.2	1.1792+00	5.9694+00	7.1486+00	3.5635+01	1.7328+00	1.1766+00
.4	1.1469+00	5.4819+00	6.6288+00	3.4612+01	1.9208+00	1.1430+00
.6	1.1213+00	5.0798+00	6.2012+00	3.3688+01	2.1110+00	1.1153+00
.8	1.1019+00	4.7508+00	5.8527+00	3.2847+01	2.3034+00	1.0926+00
1.0	1.0886+00	4.4832+00	5.5718+00	3.2076+01	2.4981+00	1.0741+00
1.2	1.0817+00	4.2666+00	5.3483+00	3.1360+01	2.6953+00	1.0590+00
1.4	1.0823+00	4.0919+00	5.1743+00	3.0687+01	2.8956+00	1.0469+00
1.6	1.0926+00	3.9519+00	5.0446+00	3.0047+01	3.0997+00	1.0370+00
1.8	1.1164+00	3.8406+00	4.9570+00	2.9427+01	3.3090+00	1.0290+00
2.0	1.1600+00	3.7534+00	4.9134+00	2.8817+01	3.5257+00	1.0225+00
2.2	1.2339+00	3.6875+00	4.9213+00	2.8201+01	3.7525+00	1.0172+00

T= 8000

LOG D	N2	N2+	N+	N++	N	E
-7.0	6.5900-08	3.6000-08	3.7900-01	5.7600-11	2.4300-01	3.7900-01
-6.8	1.5900-07	6.2700-08	3.4700-01	3.8200-11	3.0700-01	3.4700-01
-6.6	3.5700-07	1.0400-07	3.1200-01	2.5400-11	3.7500-01	3.1200-01
-6.4	7.6000-07	1.6500-07	2.7700-01	1.6800-11	4.4500-01	2.7700-01
-6.2	1.5400-06	2.5300-07	2.4200-01	1.1100-11	5.1500-01	2.4200-01
-6.0	2.9700-06	3.7400-07	2.0900-01	7.3400-12	5.8200-01	2.0900-01
-5.8	5.5500-06	5.3800-07	1.7800-01	4.8200-12	6.4400-01	1.7800-01
-5.6	1.0100-05	7.5500-07	1.5000-01	3.1500-12	7.0000-01	1.5000-01
-5.4	1.7800-05	1.0400-06	1.2500-01	2.0400-12	7.5000-01	1.2500-01
-5.2	3.0800-05	1.4000-06	1.0400-01	1.3200-12	7.9300-01	1.0400-01
-5.0	5.2300-05	1.8800-06	8.5000-02	8.5200-13	8.3000-01	8.5000-02
-4.8	8.7800-05	2.4700-06	6.9400-02	5.4700-13	8.6100-01	6.9400-02
-4.6	1.4600-04	3.2400-06	5.6400-02	3.5100-13	8.8700-01	5.6400-02
-4.4	2.3900-04	4.2000-06	4.5600-02	2.2400-13	9.0900-01	4.5600-02
-4.2	3.9000-04	5.4200-06	3.6700-02	1.4300-13	9.2600-01	3.6700-02
-4.0	6.3300-04	6.9500-06	2.9500-02	9.0900-14	9.4000-01	2.9500-02
-3.8	1.0200-03	8.8800-06	2.3700-02	5.7800-14	9.5200-01	2.3700-02
-3.6	1.6400-03	1.1300-05	1.9000-02	3.6700-14	9.6000-01	1.9000-02
-3.4	2.6200-03	1.4400-05	1.5100-02	2.3300-14	9.6700-01	1.5200-02
-3.2	4.1700-03	1.8200-05	1.2100-02	1.4800-14	9.7200-01	1.2100-02
-3.0	6.6200-03	2.2900-05	9.6400-03	9.4100-15	9.7400-01	9.6600-03
-2.8	1.0400-02	2.8800-05	7.6800-03	5.9800-15	9.7400-01	7.7100-03
-2.6	1.6300-02	3.5900-05	6.1100-03	3.8000-15	9.7100-01	6.1500-03
-2.4	2.5300-02	4.4500-05	4.8600-03	2.4200-15	9.6500-01	4.9000-03
-2.2	3.8500-02	5.4600-05	3.8600-03	1.5500-15	9.5400-01	3.9100-03
-2.0	5.7700-02	6.6000-05	3.0600-03	9.9200-16	9.3600-01	3.1200-03
-1.8	8.4400-02	7.8400-05	2.4200-03	6.3800-16	9.1100-01	2.4900-03
-1.6	1.2000-01	9.1000-05	1.9000-03	4.1200-16	8.7600-01	1.9900-03
-1.4	1.6500-01	1.0300-04	1.4900-03	2.6600-16	8.3200-01	1.5900-03
-1.2	2.1900-01	1.1300-04	1.1600-03	1.7200-16	7.7900-01	1.2700-03
-1.0	2.8000-01	1.2100-04	8.9000-04	1.1100-16	7.1800-01	1.0100-03
-.8	3.4700-01	1.2600-04	6.7700-04	7.0900-17	6.5100-01	8.0300-04
-.6	4.1700-01	1.2800-04	5.0800-04	4.4900-17	5.8200-01	6.3600-04
-.4	4.8700-01	1.2600-04	3.7700-04	2.8100-17	5.1200-01	5.0200-04
-.2	5.5600-01	1.2000-04	2.7500-04	1.7300-17	4.4400-01	3.9500-04
.0	6.2000-01	1.1300-04	1.9800-04	1.0500-17	3.8000-01	3.1100-04
.2	6.7800-01	1.0400-04	1.4000-04	6.2600-18	3.2100-01	2.4400-04
.4	7.3100-01	9.3300-05	9.8100-05	3.6700-18	2.6900-01	1.9100-04
.6	7.7700-01	8.2600-05	6.7700-05	2.1100-18	2.2300-01	1.5000-04
.8	8.1700-01	7.2100-05	4.6200-05	1.1900-18	1.8300-01	1.1800-04
1.0	8.5000-01	6.2200-05	3.1300-05	6.6600-19	1.4900-01	9.3400-05
1.2	8.7900-01	5.3200-05	2.1000-05	3.6600-19	1.2100-01	7.4200-05
1.4	9.0300-01	4.5200-05	1.4000-05	1.9800-19	9.7300-02	5.9200-05
1.6	9.2200-01	3.8500-05	9.3100-06	1.0600-19	7.7700-02	4.7800-05
1.8	9.3800-01	3.2900-05	6.2100-06	5.5400-20	6.1400-02	3.9100-05
2.0	9.5200-01	2.8500-05	4.1600-06	2.8500-20	4.8000-02	3.2700-05
2.2	9.6300-01	2.5400-05	2.8300-06	1.4300-20	3.6800-02	2.8200-05

T= 8000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.2182+00	4.5037+01	4.8255+01	1.0854+02	-5.0257+00	3.2185+00
-6.8	3.0607+00	4.1509+01	4.4569+01	1.0356+02	-4.8475+00	3.0610+00
-6.6	2.9083+00	3.8096+01	4.1004+01	9.8778+01	-4.6697+00	2.9087+00
-6.4	2.7669+00	3.4926+01	3.7693+01	9.4302+01	-4.4913+00	2.7672+00
-6.2	2.6398+00	3.2079+01	3.4719+01	9.0210+01	-4.3117+00	2.6401+00
-6.0	2.5286+00	2.9587+01	3.2116+01	8.6529+01	-4.1304+00	2.5289+00
-5.8	2.4333+00	2.7452+01	2.9885+01	8.3251+01	-3.9471+00	2.4336+00
-5.6	2.3529+00	2.5650+01	2.8003+01	8.0348+01	-3.7617+00	2.3532+00
-5.4	2.2859+00	2.4150+01	2.6436+01	7.7781+01	-3.5742+00	2.2862+00
-5.2	2.2307+00	2.2913+01	2.5144+01	7.5504+01	-3.3849+00	2.2310+00
-5.0	2.1856+00	2.1901+01	2.4086+01	7.3475+01	-3.1937+00	2.1858+00
-4.8	2.1488+00	2.1077+01	2.3226+01	7.1654+01	-3.0011+00	2.1490+00
-4.6	2.1190+00	2.0410+01	2.2529+01	7.0004+01	-2.8072+00	2.1191+00
-4.4	2.0948+00	1.9870+01	2.1965+01	6.8495+01	-2.6122+00	2.0950+00
-4.2	2.0753+00	1.9435+01	2.1510+01	6.7099+01	-2.4162+00	2.0754+00
-4.0	2.0594+00	1.9082+01	2.1141+01	6.5794+01	-2.2196+00	2.0595+00
-3.8	2.0463+00	1.8794+01	2.0840+01	6.4561+01	-2.0224+00	2.0464+00
-3.6	2.0351+00	1.8555+01	2.0590+01	6.3382+01	-1.8247+00	2.0352+00
-3.4	2.0253+00	1.8350+01	2.0375+01	6.2242+01	-1.6268+00	2.0254+00
-3.2	2.0159+00	1.8164+01	2.0180+01	6.1126+01	-1.4288+00	2.0160+00
-3.0	2.0060+00	1.7982+01	1.9988+01	6.0018+01	-1.2310+00	2.0061+00
-2.8	1.9945+00	1.7784+01	1.9779+01	5.8899+01	-1.0335+00	1.9945+00
-2.6	1.9798+00	1.7548+01	1.9527+01	5.7747+01	-0.8367-01	1.9798+00
-2.4	1.9600+00	1.7244+01	1.9204+01	5.6536+01	-0.6410-01	1.9600+00
-2.2	1.9329+00	1.6839+01	1.8772+01	5.5234+01	-0.4471-01	1.9329+00
-2.0	1.8963+00	1.6301+01	1.8197+01	5.3814+01	-0.2554-01	1.8963+00
-1.8	1.8484+00	1.5604+01	1.7453+01	5.2255+01	-0.6509-02	1.8484+00
-1.6	1.7890+00	1.4744+01	1.6533+01	5.0556+01	1.1929-01	1.7889+00
-1.4	1.7194+00	1.3740+01	1.5459+01	4.8744+01	3.0207-01	1.7193+00
-1.2	1.6429+00	1.2639+01	1.4281+01	4.6868+01	4.8231-01	1.6478+00
-1.0	1.5637+00	1.1498+01	1.3061+01	4.4989+01	6.6084-01	1.5635+00
-.8	1.4857+00	1.0376+01	1.1862+01	4.3165+01	8.3862-01	1.4854+00
-.6	1.4123+00	9.3196+00	1.0732+01	4.1442+01	1.0166+00	1.4118+00
-.4	1.3457+00	8.3601+00	9.7058+00	3.9848+01	1.1956+00	1.3450+00
-.2	1.2870+00	7.5129+00	8.7999+00	3.8395+01	1.3763+00	1.2859+00
.0	1.2366+00	6.7815+00	8.0181+00	3.7082+01	1.5589+00	1.2349+00
.2	1.1943+00	6.1611+00	7.3554+00	3.5903+01	1.7438+00	1.1917+00
.4	1.1594+00	5.6422+00	6.8016+00	3.4842+01	1.9309+00	1.1555+00
.6	1.1316+00	5.2127+00	6.3443+00	3.3885+01	2.1204+00	1.1255+00
.8	1.1103+00	4.8602+00	5.9705+00	3.3017+01	2.3121+00	1.1009+00
1.0	1.0954+00	4.5728+00	5.6682+00	3.2222+01	2.5063+00	1.0808+00
1.2	1.0872+00	4.3397+00	5.4270+00	3.1486+01	2.7030+00	1.0645+00
1.4	1.0868+00	4.1515+00	5.2383+00	3.0798+01	2.9028+00	1.0512+00
1.6	1.0962+00	4.0004+00	5.0966+00	3.0145+01	3.1066+00	1.0405+00
1.8	1.1192+00	3.8799+00	4.9991+00	2.9515+01	3.3156+00	1.0317+00
2.0	1.1622+00	3.7852+00	4.9474+00	2.8896+01	3.5320+00	1.0246+00
2.2	1.2355+00	3.7131+00	4.9486+00	2.8273+01	3.7585+00	1.0188+00

T= 8100

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.1600-08	2.8500-08	3.9600-01	9.6800-11	2.0800-01	3.9600-01
-6.8	1.0400-07	5.1300-08	3.6600-01	6.4100-11	2.6800-01	3.6600-01
-6.6	2.4400-07	8.7700-08	3.3300-01	4.2600-11	3.3400-01	3.3300-01
-6.4	5.3700-07	1.4300-07	2.9800-01	2.8300-11	4.0300-01	2.9800-01
-6.2	1.1200-06	2.2400-07	2.6300-01	1.8700-11	4.7300-01	2.6300-01
-6.0	2.2200-06	3.3700-07	2.2900-01	1.2400-11	5.4200-01	2.2900-01
-5.8	4.2300-06	4.9300-07	1.9600-01	8.1500-12	6.0700-01	1.9600-01
-5.6	7.8100-06	7.0100-07	1.6700-01	5.3300-12	6.6700-01	1.6700-01
-5.4	1.4000-05	9.7600-07	1.4000-01	3.4800-12	7.2000-01	1.4000-01
-5.2	2.4500-05	1.3300-06	1.1600-01	2.2500-12	7.6800-01	1.1600-01
-5.0	4.2100-05	1.7900-06	9.5800-02	1.4600-12	8.0800-01	9.5800-02
-4.8	7.1200-05	2.3800-06	7.8500-02	9.3800-13	8.4300-01	7.8500-02
-4.6	1.1900-04	3.1300-06	6.3900-02	6.0200-13	8.7200-01	6.3900-02
-4.4	1.9600-04	4.0800-06	5.1800-02	3.8500-13	8.9600-01	5.1800-02
-4.2	3.2200-04	5.2900-06	4.1800-02	2.4600-13	9.1600-01	4.1800-02
-4.0	5.2300-04	6.8000-06	3.3700-02	1.5700-13	9.3200-01	3.3700-02
-3.8	8.4700-04	8.7200-06	2.7100-02	9.9700-14	9.4500-01	2.7100-02
-3.6	1.3600-03	1.1100-05	2.1700-02	6.3400-14	9.5500-01	2.1700-02
-3.4	2.1800-03	1.4100-05	1.7300-02	4.0300-14	9.6300-01	1.7400-02
-3.2	3.4900-03	1.7900-05	1.3900-02	2.5600-14	9.6900-01	1.3900-02
-3.0	5.5400-03	2.2600-05	1.1100-02	1.6200-14	9.7200-01	1.1100-02
-2.8	8.7500-03	2.8500-05	8.8100-03	1.0300-14	9.7400-01	8.8400-03
-2.6	1.3700-02	3.5700-05	7.0200-03	6.5700-15	9.7200-01	7.0500-03
-2.4	2.1400-02	4.4300-05	5.5800-03	4.1800-15	9.6700-01	5.6300-03
-2.2	3.2800-02	5.4600-05	4.4300-03	2.6700-15	9.5800-01	4.4900-03
-2.0	4.9500-02	6.6400-05	3.5200-03	1.7100-15	9.4300-01	3.5800-03
-1.8	7.3200-02	7.9500-05	2.7800-03	1.1000-15	9.2100-01	2.8600-03
-1.6	1.0500-01	9.3200-05	2.1900-03	7.0800-16	8.9000-01	2.2900-03
-1.4	1.4600-01	1.0700-04	1.7200-03	4.5800-16	8.5000-01	1.8300-03
-1.2	1.9700-01	1.1900-04	1.3400-03	2.9600-16	8.0000-01	1.4600-03
-1.0	2.5600-01	1.2800-04	1.0400-03	1.9100-16	7.4200-01	1.1600-03
-.8	3.2100-01	1.3500-04	7.9100-04	1.2200-16	6.7700-01	9.2600-04
-.6	3.9000-01	1.3800-04	5.9700-04	7.7800-17	6.0800-01	7.3500-04
-.4	4.6100-01	1.3700-04	4.4500-04	4.8900-17	5.3800-01	5.8100-04
-.2	5.3000-01	1.3200-04	3.2600-04	3.0300-17	4.6900-01	4.5900-04
.0	5.9600-01	1.2500-04	2.3600-04	1.8500-17	4.0400-01	3.6100-04
.2	6.5700-01	1.1600-04	1.6800-04	1.1100-17	3.4300-01	2.8400-04
.4	7.1200-01	1.0500-04	1.1800-04	6.5300-18	2.8800-01	2.2300-04
.6	7.6000-01	9.3500-05	8.1900-05	3.7800-18	2.3900-01	1.7500-04
.8	8.0200-01	8.2000-05	5.6100-05	2.1500-18	1.9700-01	1.3800-04
1.0	8.3800-01	7.1100-05	3.8100-05	1.2100-18	1.6100-01	1.0900-04
1.2	8.6900-01	6.1000-05	2.5600-05	6.6500-19	1.3100-01	8.6600-05
1.4	8.9400-01	5.2100-05	1.7100-05	3.6200-19	1.0600-01	6.9300-05
1.6	9.1500-01	4.4400-05	1.1400-05	1.9400-19	8.4400-02	5.5900-05
1.8	9.3300-01	3.8100-05	7.6400-06	1.0200-19	6.6800-02	4.5700-05
2.0	9.4800-01	3.3100-05	5.1300-06	5.2900-20	5.2300-02	3.8300-05
2.2	9.6000-01	2.9600-05	3.4900-06	2.6700-20	4.0100-02	3.3100-05

T= 8100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.3121+00	4.6634+01	4.9946+01	1.1071+02	-5.0078+00	3.3125+00
-6.8	3.1551+00	4.3159+01	4.6314+01	1.0574+02	-4.8289+00	3.1555+00
-6.6	2.9988+00	3.9700+01	4.2699+01	1.0087+02	-4.6510+00	2.9993+00
-6.4	2.8503+00	3.6412+01	3.9262+01	9.6230+01	-4.4730+00	2.8507+00
-6.2	2.7143+00	3.3401+01	3.6115+01	9.1938+01	-4.2943+00	2.7147+00
-6.0	2.5935+00	3.0726+01	3.3319+01	8.8042+01	-4.1140+00	2.5938+00
-5.8	2.4887+00	2.8406+01	3.0894+01	8.4552+01	-3.9319+00	2.4890+00
-5.6	2.3995+00	2.6431+01	2.8830+01	8.1452+01	-3.7478+00	2.3998+00
-5.4	2.3246+00	2.4774+01	2.7098+01	7.8708+01	-3.5616+00	2.3249+00
-5.2	2.2626+00	2.3400+01	2.5662+01	7.6278+01	-3.3733+00	2.2629+00
-5.0	2.2116+00	2.2271+01	2.4482+01	7.4119+01	-3.1832+00	2.2118+00
-4.8	2.1699+00	2.1349+01	2.3519+01	7.2189+01	-2.9915+00	2.1702+00
-4.6	2.1361+00	2.0600+01	2.2736+01	7.0449+01	-2.7983+00	2.1363+00
-4.4	2.1087+00	1.9994+01	2.2103+01	6.8866+01	-2.6039+00	2.1089+00
-4.2	2.0865+00	1.9504+01	2.1591+01	6.7410+01	-2.4085+00	2.0867+00
-4.0	2.0685+00	1.9108+01	2.1177+01	6.6058+01	-2.2123+00	2.0686+00
-3.8	2.0537+00	1.8786+01	2.0840+01	6.4787+01	-2.0154+00	2.0538+00
-3.6	2.0414+00	1.8521+01	2.0563+01	6.3579+01	-1.8180+00	2.0415+00
-3.4	2.0307+00	1.8298+01	2.0329+01	6.2418+01	-1.6203+00	2.0308+00
-3.2	2.0209+00	1.8101+01	2.0122+01	6.1288+01	-1.4224+00	2.0210+00
-3.0	2.0110+00	1.7916+01	1.9927+01	6.0175+01	-1.2245+00	2.0111+00
-2.8	2.0000+00	1.7724+01	1.9724+01	5.9059+01	-1.0269+00	2.0001+00
-2.6	1.9866+00	1.7504+01	1.9490+01	5.7921+01	-8.2981-01	1.9867+00
-2.4	1.9689+00	1.7229+01	1.9198+01	5.6735+01	-6.3370-01	1.9689+00
-2.2	1.9448+00	1.6869+01	1.8814+01	5.5474+01	-4.3905-01	1.9448+00
-2.0	1.9120+00	1.6389+01	1.8301+01	5.4106+01	-2.4643-01	1.9120+00
-1.8	1.8685+00	1.5761+01	1.7630+01	5.2606+01	-5.6427-02	1.8685+00
-1.6	1.8134+00	1.4970+01	1.6784+01	5.0967+01	1.3057-01	1.8133+00
-1.4	1.7473+00	1.4027+01	1.5775+01	4.9204+01	3.1446-01	1.7473+00
-1.2	1.6730+00	1.2968+01	1.4641+01	4.7357+01	4.9559-01	1.6729+00
-1.0	1.5943+00	1.1847+01	1.3442+01	4.5484+01	6.7466-01	1.5941+00
-.8	1.5154+00	1.0724+01	1.2239+01	4.3645+01	8.5261-01	1.5151+00
-.6	1.4399+00	9.6499+00	1.1090+01	4.1890+01	1.0304+00	1.4394+00
-.4	1.3705+00	8.6616+00	1.0032+01	4.0255+01	1.2090+00	1.3698+00
-.2	1.3088+00	7.7800+00	9.0888+00	3.8757+01	1.3890+00	1.3077+00
.0	1.2553+00	7.0129+00	8.2682+00	3.7400+01	1.5708+00	1.2536+00
.2	1.2100+00	6.3581+00	7.5681+00	3.6177+01	1.7549+00	1.2074+00
.4	1.1726+00	5.8076+00	6.9802+00	3.5079+01	1.9412+00	1.1686+00
.6	1.1424+00	5.3503+00	6.4927+00	3.4089+01	2.1299+00	1.1363+00
.8	1.1192+00	4.9738+00	6.0930+00	3.3192+01	2.3210+00	1.1097+00
1.0	1.1026+00	4.6661+00	5.7687+00	3.2373+01	2.5145+00	1.0880+00
1.2	1.0931+00	4.4160+00	5.5090+00	3.1617+01	2.7107+00	1.0702+00
1.4	1.0915+00	4.2137+00	5.3052+00	3.0912+01	2.9101+00	1.0558+00
1.6	1.1000+00	4.0509+00	5.1509+00	3.0245+01	3.1135+00	1.0441+00
1.8	1.1222+00	3.9209+00	5.0431+00	2.9604+01	3.3222+00	1.0346+00
2.0	1.1645+00	3.8184+00	4.9829+00	2.8976+01	3.5382+00	1.0269+00
2.2	1.2372+00	3.7398+00	4.9771+00	2.8346+01	3.7645+00	1.0205+00

T= 8200

LOG O	N2	N2+	N+	N++	N	E
-7.0	2.5800-08	2.2300-08	4.1200-01	1.6100-10	1.7600-01	4.1200-01
-6.8	6.7600-08	4.1500-08	3.8400-01	1.0600-10	2.3200-01	3.8400-01
-6.6	1.6500-07	7.3000-08	3.5300-01	7.0500-11	2.9400-01	3.5300-01
-6.4	3.7600-07	1.2200-07	3.1900-01	4.6800-11	3.6200-01	3.1900-01
-6.2	8.0700-07	1.9600-07	2.8400-01	3.1100-11	4.3200-01	2.8400-01
-6.0	1.6400-06	3.0100-07	2.4900-01	2.0600-11	5.0200-01	2.4900-01
-5.8	3.2100-06	4.4800-07	2.1500-01	1.3600-11	5.6900-01	2.1500-01
-5.6	6.0300-06	6.4800-07	1.8400-01	8.9200-12	6.3200-01	1.8400-01
-5.4	1.1000-05	9.1300-07	1.5500-01	5.8300-12	6.9000-01	1.5500-01
-5.2	1.9500-05	1.2600-06	1.3000-01	3.7900-12	7.4100-01	1.3000-01
-5.0	3.3800-05	1.7100-06	1.0700-01	2.4500-12	7.8500-01	1.0700-01
-4.8	5.7700-05	2.2900-06	8.8300-02	1.5800-12	8.2300-01	8.8300-02
-4.6	9.7100-05	3.0300-06	7.2200-02	1.0200-12	8.5600-01	7.2200-02
-4.4	1.6100-04	3.9700-06	5.8700-02	6.5200-13	8.8300-01	5.8700-02
-4.2	2.6600-04	5.1500-06	4.7500-02	4.1700-13	9.0500-01	4.7500-02
-4.0	4.3400-04	6.6500-06	3.8300-02	2.6600-13	9.2300-01	3.8300-02
-3.8	7.0400-04	8.5500-06	3.0800-02	1.7000-13	9.3800-01	3.0800-02
-3.6	1.1400-03	1.0900-05	2.4700-02	1.0800-13	9.4900-01	2.4700-02
-3.4	1.8200-03	1.3900-05	1.9800-02	6.8600-14	9.5900-01	1.9800-02
-3.2	2.9200-03	1.7700-05	1.5800-02	4.3600-14	9.6500-01	1.5800-02
-3.0	4.6500-03	2.2400-05	1.2600-02	2.7700-14	9.7000-01	1.2600-02
-2.8	7.3600-03	2.8200-05	1.0100-02	1.7600-14	9.7200-01	1.0100-02
-2.6	1.1600-02	3.5400-05	8.0200-03	1.1200-14	9.7200-01	8.0600-03
-2.4	1.8100-02	4.4100-05	6.3900-03	7.1300-15	9.6900-01	6.4300-03
-2.2	2.8000-02	5.4600-05	5.0800-03	4.5500-15	9.6200-01	5.1300-03
-2.0	4.2500-02	6.6700-05	4.0300-03	2.9100-15	9.4900-01	4.1000-03
-1.8	6.3400-02	8.0400-05	3.1900-03	1.8700-15	9.3000-01	3.2700-03
-1.6	9.2000-02	9.5000-05	2.5200-03	1.2000-15	9.0300-01	2.6200-03
-1.4	1.3000-01	1.1000-04	1.9800-03	7.7700-16	8.6600-01	2.0900-03
-1.2	1.7700-01	1.2300-04	1.5500-03	5.0200-16	8.2000-01	1.6700-03
-1.0	2.3300-01	1.3500-04	1.2000-03	3.2400-16	7.6500-01	1.3300-03
-.8	2.9600-01	1.4300-04	9.2000-04	2.0800-16	7.0200-01	1.0600-03
-.6	3.6400-01	1.4800-04	6.9700-04	1.3300-16	6.3500-01	8.4500-04
-.4	4.3400-01	1.4800-04	5.2200-04	8.3900-17	5.6500-01	6.7000-04
-.2	5.0400-01	1.4500-04	3.8500-04	5.2300-17	4.9500-01	5.3000-04
.0	5.7100-01	1.3800-04	2.8000-04	3.2000-17	4.2800-01	4.1800-04
.2	6.3400-01	1.2900-04	2.0000-04	1.9300-17	3.6500-01	3.2900-04
.4	6.9200-01	1.1700-04	1.4100-04	1.1400-17	3.0800-01	2.5900-04
.6	7.4300-01	1.0500-04	9.8500-05	6.6700-18	2.5700-01	2.0400-04
.8	7.8700-01	9.2900-05	6.7800-05	3.8200-18	2.1200-01	1.6100-04
1.0	8.2600-01	8.0900-05	4.6100-05	2.1500-18	1.7400-01	1.2700-04
1.2	8.5800-01	6.9700-05	3.1200-05	1.1900-18	1.4200-01	1.0100-04
1.4	8.8600-01	5.9800-05	2.0900-05	6.5200-19	1.1400-01	8.0700-05
1.6	9.0800-01	5.1100-05	1.4000-05	3.5100-19	9.1500-02	6.5100-05
1.8	9.2700-01	4.4000-05	9.3500-06	1.8600-19	7.2600-02	5.3300-05
2.0	9.4300-01	3.8300-05	6.2900-06	9.6700-20	5.6800-02	4.4600-05
2.2	9.5600-01	3.4300-05	4.2800-06	4.9100-20	4.3700-02	3.8600-05

T= 8200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.4011+00	4.8087+01	5.1488+01	1.1274+02	-4.9910+00	3.4015+00
-6.8	3.2476+00	4.4729+01	4.7976+01	1.0785+02	-4.8110+00	3.2480+00
-6.6	3.0899+00	4.1280+01	4.4370+01	1.0294+02	-4.6326+00	3.0904+00
-6.4	2.9361+00	3.7916+01	4.0852+01	9.8191+01	-4.4548+00	2.9366+00
-6.2	2.7923+00	3.4769+01	3.7562+01	9.3726+01	-4.2766+00	2.7928+00
-6.0	2.6624+00	3.1927+01	3.4589+01	8.9627+01	-4.0973+00	2.6628+00
-5.8	2.5482+00	2.9428+01	3.1976+01	8.5930+01	-3.9164+00	2.5486+00
-5.6	2.4500+00	2.7279+01	2.9729+01	8.2630+01	-3.7334+00	2.4503+00
-5.4	2.3669+00	2.5461+01	2.7828+01	7.9703+01	-3.5484+00	2.3672+00
-5.2	2.2975+00	2.3943+01	2.6241+01	7.7112+01	-3.3613+00	2.2979+00
-5.0	2.2403+00	2.2690+01	2.4930+01	7.4815+01	-3.1723+00	2.2406+00
-4.8	2.1933+00	2.1663+01	2.3856+01	7.2767+01	-2.9815+00	2.1936+00
-4.6	2.1551+00	2.0827+01	2.2982+01	7.0930+01	-2.7891+00	2.1553+00
-4.4	2.1240+00	2.0148+01	2.2272+01	6.9266+01	-2.5954+00	2.1242+00
-4.2	2.0989+00	1.9600+01	2.1698+01	6.7745+01	-2.4006+00	2.0991+00
-4.0	2.0785+00	1.9156+01	2.1234+01	6.6340+01	-2.2048+00	2.0787+00
-3.8	2.0619+00	1.8796+01	2.0858+01	6.5027+01	-2.0083+00	2.0620+00
-3.6	2.0481+00	1.8502+01	2.0550+01	6.3787+01	-1.8112+00	2.0483+00
-3.4	2.0364+00	1.8257+01	2.0293+01	6.2601+01	-1.6137+00	2.0366+00
-3.2	2.0260+00	1.8046+01	2.0072+01	6.1455+01	-1.4159+00	2.0261+00
-3.0	2.0160+00	1.7854+01	1.9870+01	6.0332+01	-1.2181+00	2.0161+00
-2.8	2.0053+00	1.7663+01	1.9669+01	5.9216+01	-1.0204+00	2.0054+00
-2.6	1.9928+00	1.7455+01	1.9448+01	5.8086+01	-8.2312-01	1.9929+00
-2.4	1.9768+00	1.7204+01	1.9180+01	5.6921+01	-6.2663-01	1.9768+00
-2.2	1.9552+00	1.6881+01	1.8836+01	5.5692+01	-4.3139-01	1.9553+00
-2.0	1.9259+00	1.6452+01	1.8378+01	5.4370+01	-2.3796-01	1.9259+00
-1.8	1.8865+00	1.5887+01	1.7774+01	5.2926+01	-4.6931-02	1.8865+00
-1.6	1.8357+00	1.5164+01	1.7000+01	5.1346+01	1.4121-01	1.8357+00
-1.4	1.7735+00	1.4284+01	1.6058+01	4.9635+01	3.2625-01	1.7734+00
-1.2	1.7019+00	1.3274+01	1.4975+01	4.7823+01	5.0834-01	1.7018+00
-1.0	1.6243+00	1.2181+01	1.3805+01	4.5964+01	6.8808-01	1.6241+00
-.8	1.5450+00	1.1064+01	1.2609+01	4.4118+01	8.6633-01	1.5446+00
-.6	1.4678+00	9.9776+00	1.1445+01	4.2338+01	1.0441+00	1.4673+00
-.4	1.3959+00	8.9647+00	1.0361+01	4.0666+01	1.2223+00	1.3952+00
-.2	1.3312+00	8.0515+00	9.3827+00	3.9125+01	1.4017+00	1.3301+00
.0	1.2747+00	7.2499+00	8.5246+00	3.7724+01	1.5828+00	1.2730+00
.2	1.2265+00	6.5611+00	7.7876+00	3.6459+01	1.7661+00	1.2238+00
.4	1.1864+00	5.9789+00	7.1653+00	3.5322+01	1.9516+00	1.1823+00
.6	1.1539+00	5.4933+00	6.6471+00	3.4298+01	2.1396+00	1.1477+00
.8	1.1286+00	5.0921+00	6.2207+00	3.3371+01	2.3299+00	1.1190+00
1.0	1.1103+00	4.7634+00	5.8737+00	3.2527+01	2.5228+00	1.0955+00
1.2	1.0993+00	4.4956+00	5.5949+00	3.1751+01	2.7185+00	1.0763+00
1.4	1.0965+00	4.2787+00	5.3752+00	3.1029+01	2.9174+00	1.0607+00
1.6	1.1040+00	4.1038+00	5.2078+00	3.0348+01	3.1204+00	1.0480+00
1.8	1.1254+00	3.9638+00	5.0892+00	2.9695+01	3.3287+00	1.0377+00
2.0	1.1670+00	3.8530+00	5.0201+00	2.9057+01	3.5445+00	1.0293+00
2.2	1.2391+00	3.7677+00	5.0068+00	2.8420+01	3.7705+00	1.0224+00

$\tau = 8300$ 

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.5800-08	1.7300-08	4.2600-01	2.6400-10	1.4800-01	4.2600-01
-6.8	4.3200-08	3.3100-08	4.0100-01	1.7400-10	1.9900-01	4.0100-01
-6.6	1.1000-07	6.0100-08	3.7100-01	1.1500-10	2.5800-01	3.7100-01
-6.4	2.6000-07	1.0300-07	3.3900-01	7.6600-11	3.2300-01	3.3900-01
-6.2	5.7700-07	1.7000-07	3.0400-01	5.0900-11	3.9200-01	3.0400-01
-6.0	1.2100-06	2.6700-07	2.6900-01	3.3800-11	4.6200-01	2.6900-01
-5.8	2.4200-06	4.0500-07	2.3400-01	2.2300-11	5.3100-01	2.3400-01
-5.6	4.6400-06	5.9500-07	2.0200-01	1.4700-11	5.9700-01	2.0200-01
-5.4	8.6000-06	8.5100-07	1.7100-01	9.6300-12	6.5800-01	1.7100-01
-5.2	1.5500-05	1.1900-06	1.4400-01	6.2800-12	7.1200-01	1.4400-01
-5.0	2.7200-05	1.6300-06	1.2000-01	4.0800-12	7.6000-01	1.2000-01
-4.8	4.6800-05	2.1900-06	9.8900-02	2.6400-12	8.0200-01	9.8900-02
-4.6	7.9400-05	2.9200-06	8.1100-02	1.7000-12	8.3800-01	8.1100-02
-4.4	1.3300-04	3.8400-06	6.6100-02	1.0900-12	8.6800-01	6.6100-02
-4.2	2.2000-04	5.0200-06	5.3600-02	6.9900-13	8.9300-01	5.3600-02
-4.0	3.6100-04	6.5000-06	4.3300-02	4.4600-13	9.1300-01	4.3300-02
-3.8	5.8700-04	8.3800-06	3.4900-02	2.8500-13	9.3000-01	3.4900-02
-3.6	9.5000-04	1.0700-05	2.8000-02	1.8100-13	9.4300-01	2.8000-02
-3.4	1.5300-03	1.3700-05	2.2500-02	1.1500-13	9.5300-01	2.2500-02
-3.2	2.4500-03	1.7400-05	1.8000-02	7.3300-14	9.6200-01	1.8000-02
-3.0	3.9100-03	2.2100-05	1.4400-02	4.6600-14	9.6700-01	1.4400-02
-2.8	6.2200-03	2.7900-05	1.1500-02	2.9600-14	9.7100-01	1.1500-02
-2.6	9.8100-03	3.5100-05	9.1500-03	1.8800-14	9.7200-01	9.1800-03
-2.4	1.5400-02	4.3900-05	7.2800-03	1.2000-14	9.7000-01	7.3300-03
-2.2	2.3900-02	5.4500-05	5.7900-03	7.6500-15	9.6400-01	5.8500-03
-2.0	3.6500-02	6.6900-05	4.6000-03	4.8900-15	9.5400-01	4.6700-03
-1.8	5.4900-02	8.1100-05	3.6500-03	3.1400-15	9.3800-01	3.7300-03
-1.6	8.0500-02	9.6600-05	2.8800-03	2.0200-15	9.1400-01	2.9800-03
-1.4	1.1500-01	1.1300-04	2.2700-03	1.3000-15	8.8000-01	2.3800-03
-1.2	1.5800-01	1.2800-04	1.7800-03	8.4200-16	8.3800-01	1.9100-03
-1.0	2.1100-01	1.4100-04	1.3800-03	5.4400-16	7.8600-01	1.5200-03
-.8	2.7200-01	1.5200-04	1.0600-03	3.5000-16	7.2600-01	1.2200-03
-.6	3.3800-01	1.5800-04	8.1000-04	2.2400-16	6.6000-01	9.6800-04
-.4	4.0800-01	1.6000-04	6.0900-04	1.4200-16	5.9000-01	7.6900-04
-.2	4.7900-01	1.5800-04	4.5100-04	8.8800-17	5.2000-01	6.0900-04
.0	5.4700-01	1.5200-04	3.3000-04	5.4800-17	4.5200-01	4.8100-04
.2	6.1200-01	1.4200-04	2.3700-04	3.3200-17	3.8700-01	3.8000-04
.4	6.7200-01	1.3100-04	1.6800-04	1.9800-17	3.2800-01	2.9900-04
.6	7.2500-01	1.1800-04	1.1800-04	1.1600-17	2.7500-01	2.3600-04
.8	7.7200-01	1.0500-04	8.1300-05	6.6700-18	2.2800-01	1.8600-04
1.0	8.1300-01	9.1600-05	5.5600-05	3.7800-18	1.8700-01	1.4700-04
1.2	8.4700-01	7.9400-05	3.7700-05	2.1100-18	1.5300-01	1.1700-04
1.4	8.7600-01	6.8300-05	2.5300-05	1.1600-18	1.2300-01	9.3600-05
1.6	9.0100-01	5.8600-05	1.7000-05	6.2700-19	9.9000-02	7.5600-05
1.8	9.2100-01	5.0600-05	1.1400-05	3.3400-19	7.8600-02	6.1900-05
2.0	9.3800-01	4.4200-05	7.6600-06	1.7400-19	6.1600-02	5.1900-05
2.2	9.5300-01	3.9600-05	5.2200-06	8.9100-20	4.7400-02	4.4900-05



T= 8300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.4839+00	4.9371+01	5.2855+01	1.1461+02	-4.9753+00	3.4843+00
-6.8	3.3365+00	4.6185+01	4.9522+01	1.0986+02	-4.7940+00	3.3370+00
-6.6	3.1802+00	4.2806+01	4.5986+01	1.0498+02	-4.6149+00	3.1807+00
-6.4	3.0233+00	3.9414+01	4.2437+01	1.0016+02	-4.4368+00	3.0238+00
-6.2	2.8732+00	3.6167+01	3.9041+01	9.5553+01	-4.2590+00	2.8737+00
-6.0	2.7349+00	3.3179+01	3.5913+01	9.1274+01	-4.0804+00	2.7354+00
-5.8	2.6116+00	3.0512+01	3.3123+01	8.7376+01	-3.9004+00	2.6121+00
-5.6	2.5043+00	2.8191+01	3.0695+01	8.3878+01	-3.7186+00	2.5047+00
-5.4	2.4127+00	2.6209+01	2.8622+01	8.0765+01	-3.5348+00	2.4131+00
-5.2	2.3356+00	2.4544+01	2.6879+01	7.8006+01	-3.3489+00	2.3360+00
-5.0	2.2717+00	2.3160+01	2.5432+01	7.5562+01	-3.1610+00	2.2720+00
-4.8	2.2190+00	2.2021+01	2.4240+01	7.3390+01	-2.9712+00	2.2193+00
-4.6	2.1760+00	2.1091+01	2.3267+01	7.1448+01	-2.7797+00	2.1763+00
-4.4	2.1410+00	2.0334+01	2.2475+01	6.9698+01	-2.5867+00	2.1412+00
-4.2	2.1126+00	1.9722+01	2.1834+01	6.8106+01	-2.3925+00	2.1128+00
-4.0	2.0896+00	1.9226+01	2.1315+01	6.6643+01	-2.1973+00	2.0898+00
-3.8	2.0709+00	1.8825+01	2.0895+01	6.5284+01	-2.0012+00	2.0711+00
-3.6	2.0555+00	1.8498+01	2.0553+01	6.4007+01	-1.8044+00	2.0557+00
-3.4	2.0426+00	1.8228+01	2.0271+01	6.2794+01	-1.6071+00	2.0428+00
-3.2	2.0314+00	1.8000+01	2.0031+01	6.1627+01	-1.4095+00	2.0316+00
-3.0	2.0210+00	1.7797+01	1.9819+01	6.0492+01	-1.2118+00	2.0211+00
-2.8	2.0105+00	1.7605+01	1.9615+01	5.9371+01	-1.0140+00	2.0106+00
-2.6	1.9986+00	1.7403+01	1.9401+01	5.8246+01	-8.1660-01	1.9987+00
-2.4	1.9839+00	1.7169+01	1.9153+01	5.7095+01	-6.1981-01	1.9839+00
-2.2	1.9644+00	1.6876+01	1.8841+01	5.5893+01	-4.2408-01	1.9645+00
-2.0	1.9381+00	1.6492+01	1.8431+01	5.4610+01	-2.2995-01	1.9381+00
-1.8	1.9025+00	1.5984+01	1.7887+01	5.3217+01	-3.7991-02	1.9025+00
-1.6	1.8559+00	1.5326+01	1.7182+01	5.1693+01	1.5124-01	1.8559+00
-1.4	1.7977+00	1.4510+01	1.6308+01	5.0035+01	3.3740-01	1.7977+00
-1.2	1.7292+00	1.3552+01	1.5281+01	4.8264+01	5.2052-01	1.7291+00
-1.0	1.6533+00	1.2493+01	1.4147+01	4.6427+01	7.0102-01	1.6531+00
-.8	1.5741+00	1.1390+01	1.2964+01	4.4580+01	8.7970-01	1.5737+00
-.6	1.4957+00	1.0299+01	1.1794+01	4.2782+01	1.0575+00	1.4952+00
-.4	1.4216+00	9.2661+00	1.0688+01	4.1078+01	1.2355+00	1.4209+00
-.2	1.3542+00	8.3244+00	9.6786+00	3.9497+01	1.4144+00	1.3530+00
.0	1.2947+00	7.4903+00	8.7850+00	3.8054+01	1.5948+00	1.2929+00
.2	1.2436+00	6.7684+00	8.0119+00	3.6748+01	1.7773+00	1.2409+00
.4	1.2007+00	6.1548+00	7.3555+00	3.5572+01	1.9621+00	1.1966+00
.6	1.1658+00	5.6406+00	6.8064+00	3.4513+01	2.1493+00	1.1595+00
.8	1.1384+00	5.2144+00	6.3528+00	3.3556+01	2.3390+00	1.1288+00
1.0	1.1183+00	4.8642+00	5.9825+00	3.2687+01	2.5312+00	1.1035+00
1.2	1.1058+00	4.5783+00	5.6841+00	3.1889+01	2.7264+00	1.0828+00
1.4	1.1018+00	4.3462+00	5.4480+00	3.1149+01	2.9248+00	1.0659+00
1.6	1.1082+00	4.1587+00	5.2670+00	3.0453+01	3.1273+00	1.0521+00
1.8	1.1288+00	4.0083+00	5.1372+00	2.9788+01	3.3353+00	1.0410+00
2.0	1.1697+00	3.8891+00	5.0588+00	2.9141+01	3.5508+00	1.0318+00
2.2	1.2411+00	3.7967+00	5.0378+00	2.8495+01	3.7765+00	1.0243+00

T= 8400

LOG D	N2	N2+	N+	N++	N	E
-7.0	9.5500-09	1.3200-08	4.3800-01	4.3100-10	1.2400-01	4.3800-01
-6.8	2.7300-08	2.6100-08	4.1500-01	2.8300-10	1.6900-01	4.1500-01
-6.6	7.2100-08	4.8800-08	3.8800-01	1.8700-10	2.2400-01	3.8800-01
-6.4	1.7700-07	8.6600-08	3.5700-01	1.2400-10	2.8600-01	3.5700-01
-6.2	4.0800-07	1.4600-07	3.2400-01	8.2400-11	3.5300-01	3.2400-01
-6.0	8.8200-07	2.3500-07	2.8900-01	5.4700-11	4.2300-01	2.8900-01
-5.8	1.8100-06	3.6400-07	2.5400-01	3.6200-11	4.9300-01	2.5400-01
-5.6	3.5500-06	5.4300-07	2.2000-01	2.3900-11	5.6100-01	2.2000-01
-5.4	6.7100-06	7.8700-07	1.8800-01	1.5700-11	6.2400-01	1.8800-01
-5.2	1.2300-05	1.1100-06	1.5900-01	1.0300-11	6.8200-01	1.5900-01
-5.0	2.1800-05	1.5400-06	1.3300-01	6.6900-12	7.3400-01	1.3300-01
-4.8	3.8000-05	2.1000-06	1.1000-01	4.3400-12	7.8000-01	1.1000-01
-4.6	6.5000-05	2.8100-06	9.0700-02	2.8000-12	8.1900-01	9.0700-02
-4.4	1.0900-04	3.7200-06	7.4200-02	1.8000-12	8.5200-01	7.4200-02
-4.2	1.8200-04	4.8800-06	6.0300-02	1.1600-12	8.7900-01	6.0300-02
-4.0	3.0000-04	6.3400-06	4.8900-02	7.3900-13	9.0200-01	4.8900-02
-3.8	4.9100-04	8.2000-06	3.9400-02	4.7200-13	9.2100-01	3.9400-02
-3.6	7.9700-04	1.0500-05	3.1700-02	3.0100-13	9.3600-01	3.1700-02
-3.4	1.2900-03	1.3500-05	2.5500-02	1.9200-13	9.4800-01	2.5500-02
-3.2	2.0700-03	1.7200-05	2.0400-02	1.2200-13	9.5700-01	2.0400-02
-3.0	3.3000-03	2.1800-05	1.6300-02	7.7500-14	9.6400-01	1.6300-02
-2.8	5.2600-03	2.7600-05	1.3000-02	4.9300-14	9.6900-01	1.3100-02
-2.6	8.3300-03	3.4800-05	1.0400-02	3.1300-14	9.7100-01	1.0400-02
-2.4	1.3100-02	4.3600-05	8.2800-03	2.0000-14	9.7000-01	8.3200-03
-2.2	2.0400-02	5.4300-05	6.5900-03	1.2700-14	9.6600-01	6.6400-03
-2.0	3.1400-02	6.7000-05	5.2400-03	8.1300-15	9.5800-01	5.3000-03
-1.8	4.7500-02	8.1700-05	4.1600-03	5.2100-15	9.4400-01	4.2400-03
-1.6	7.0400-02	9.7900-05	3.2900-03	3.3500-15	9.2300-01	3.3900-03
-1.4	1.0100-01	1.1500-04	2.5900-03	2.1600-15	8.9300-01	2.7100-03
-1.2	1.4200-01	1.3200-04	2.0400-03	1.3900-15	8.5400-01	2.1700-03
-1.0	1.9100-01	1.4700-04	1.5900-03	9.0200-16	8.0500-01	1.7300-03
-.8	2.4900-01	1.6000-04	1.2300-03	5.8200-16	7.4800-01	1.3900-03
-.6	3.1400-01	1.6800-04	9.3700-04	3.7300-16	6.8400-01	1.1100-03
-.4	3.8300-01	1.7200-04	7.0700-04	2.3700-16	6.1500-01	8.7900-04
-.2	4.5300-01	1.7100-04	5.2700-04	1.4900-16	5.4500-01	6.9800-04
.0	5.2300-01	1.6600-04	3.8700-04	9.2300-17	4.7600-01	5.5200-04
.2	5.8900-01	1.5700-04	2.8000-04	5.6300-17	4.1000-01	4.3600-04
.4	6.5100-01	1.4500-04	1.9900-04	3.3700-17	3.4800-01	3.4400-04
.6	7.0700-01	1.3200-04	1.4000-04	1.9900-17	2.9300-01	2.7200-04
.8	7.5600-01	1.1800-04	9.7200-05	1.1500-17	2.4400-01	2.1500-04
1.0	7.9900-01	1.0300-04	6.6700-05	6.5600-18	2.0100-01	1.7000-04
1.2	8.3600-01	9.0000-05	4.5300-05	3.6800-18	1.6400-01	1.3500-04
1.4	8.6700-01	7.7700-05	3.0600-05	2.0300-18	1.3300-01	1.0800-04
1.6	8.9300-01	6.7000-05	2.0500-05	1.1000-18	1.0700-01	8.7500-05
1.8	9.1500-01	5.7900-05	1.3800-05	5.9000-19	8.4900-02	7.1700-05
2.0	9.3300-01	5.0800-05	9.3000-06	3.1000-19	6.6600-02	6.0100-05
2.2	9.4900-01	4.5700-05	6.3500-06	1.5900-19	5.1300-02	5.2000-05

T= 8400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.5593+00	5.0470+01	5.4029+01	1.1631+02	-4.9608+00	3.5598+00
-6.8	3.4205+00	4.7504+01	5.0925+01	1.1174+02	-4.7780+00	3.4211+00
-6.6	3.2682+00	4.4249+01	4.7517+01	1.0694+02	-4.5978+00	3.2687+00
-6.4	3.1106+00	4.0881+01	4.3992+01	1.0211+02	-4.4193+00	3.1112+00
-6.2	2.9559+00	3.7575+01	4.0531+01	9.7403+01	-4.2414+00	2.9565+00
-6.0	2.8105+00	3.4468+01	3.7278+01	9.2968+01	-4.0633+00	2.8111+00
-5.8	2.6786+00	3.1648+01	3.4327+01	8.8885+01	-3.8842+00	2.6792+00
-5.6	2.5623+00	2.9162+01	3.1724+01	8.5193+01	-3.7035+00	2.5628+00
-5.4	2.4620+00	2.7017+01	2.9479+01	8.1892+01	-3.5208+00	2.4625+00
-5.2	2.3770+00	2.5200+01	2.7577+01	7.8961+01	-3.3361+00	2.3775+00
-5.0	2.3060+00	2.3681+01	2.5987+01	7.6364+01	-3.1493+00	2.3064+00
-4.8	2.2472+00	2.2424+01	2.4671+01	7.4059+01	-2.9605+00	2.2476+00
-4.6	2.1990+00	2.1394+01	2.3593+01	7.2005+01	-2.7699+00	2.1993+00
-4.4	2.1596+00	2.0553+01	2.2713+01	7.0161+01	-2.5777+00	2.1600+00
-4.2	2.1277+00	1.9871+01	2.1999+01	6.8493+01	-2.3842+00	2.1280+00
-4.0	2.1018+00	1.9319+01	2.1421+01	6.6967+01	-2.1895+00	2.1021+00
-3.8	2.0808+00	1.8872+01	2.0953+01	6.5557+01	-1.9939+00	2.0810+00
-3.6	2.0636+00	1.8510+01	2.0573+01	6.4240+01	-1.7975+00	2.0638+00
-3.4	2.0493+00	1.8212+01	2.0262+01	6.2996+01	-1.6005+00	2.0495+00
-3.2	2.0372+00	1.7964+01	2.0001+01	6.1806+01	-1.4031+00	2.0373+00
-3.0	2.0262+00	1.7748+01	1.9774+01	6.0655+01	-1.2054+00	2.0263+00
-2.8	2.0155+00	1.7550+01	1.9565+01	5.9526+01	-1.0077+00	2.0156+00
-2.6	2.0040+00	1.7350+01	1.9354+01	5.8401+01	-8.1022-01	2.0041+00
-2.4	1.9903+00	1.7129+01	1.9120+01	5.7260+01	-6.1320-01	1.9904+00
-2.2	1.9727+00	1.6861+01	1.8834+01	5.6079+01	-4.1706-01	1.9728+00
-2.0	1.9490+00	1.6515+01	1.8464+01	5.4830+01	-2.2231-01	1.9490+00
-1.8	1.9169+00	1.6057+01	1.7974+01	5.3482+01	-2.9529-02	1.9169+00
-1.6	1.8743+00	1.5460+01	1.7334+01	5.2011+01	1.6072-01	1.8743+00
-1.4	1.8201+00	1.4707+01	1.6527+01	5.0407+01	3.4799-01	1.8201+00
-1.2	1.7550+00	1.3805+01	1.5560+01	4.8681+01	5.3216-01	1.7549+00
-1.0	1.6813+00	1.2787+01	1.4468+01	4.6871+01	7.1352-01	1.6811+00
-.8	1.6027+00	1.1704+01	1.3306+01	4.5032+01	8.9274-01	1.6024+00
-.6	1.5236+00	1.0613+01	1.2137+01	4.3222+01	1.0708+00	1.5231+00
-.4	1.4477+00	9.5662+00	1.1014+01	4.1491+01	1.2486+00	1.4469+00
-.2	1.3777+00	8.5994+00	9.9772+00	3.9874+01	1.4270+00	1.3765+00
.0	1.3154+00	7.7348+00	9.0501+00	3.8389+01	1.6069+00	1.3135+00
.2	1.2613+00	6.9807+00	8.2420+00	3.7042+01	1.7887+00	1.2586+00
.4	1.2157+00	6.3359+00	7.5516+00	3.5827+01	1.9727+00	1.2116+00
.6	1.1783+00	5.7930+00	6.9713+00	3.4733+01	2.1591+00	1.1720+00
.8	1.1487+00	5.3413+00	6.4901+00	3.3746+01	2.3481+00	1.1391+00
1.0	1.1269+00	4.9690+00	6.0958+00	3.2850+01	2.5397+00	1.1119+00
1.2	1.1127+00	4.6644+00	5.7771+00	3.2030+01	2.7343+00	1.0896+00
1.4	1.1074+00	4.4166+00	5.5240+00	3.1271+01	2.9322+00	1.0713+00
1.6	1.1128+00	4.2160+00	5.3288+00	3.0560+01	3.1343+00	1.0565+00
1.8	1.1324+00	4.0548+00	5.1873+00	2.9883+01	3.3419+00	1.0444+00
2.0	1.1725+00	3.9266+00	5.0992+00	2.9225+01	3.5570+00	1.0345+00
2.2	1.2433+00	3.8269+00	5.0701+00	2.8570+01	3.7824+00	1.0264+00

T= 8500

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.7100-09	1.0000-08	4.4900-01	6.9600-10	1.0300-01	4.4900-01
-6.8	1.7000-08	2.0400-08	4.2800-01	4.5500-10	1.4300-01	4.2800-01
-6.6	4.6800-08	3.9300-08	4.0400-01	3.0000-10	1.9300-01	4.0400-01
-6.4	1.2000-07	7.1700-08	3.7400-01	1.9800-10	2.5100-01	3.7400-01
-6.2	2.8500-07	1.2400-07	3.4200-01	1.3200-10	3.1600-01	3.4200-01
-6.0	6.3800-07	2.0500-07	3.0800-01	8.7600-11	3.8500-01	3.0800-01
-5.8	1.3500-06	3.2400-07	2.7300-01	5.8100-11	4.5500-01	2.7300-01
-5.6	2.7000-06	4.9200-07	2.3800-01	3.8400-11	5.2400-01	2.3800-01
-5.4	5.2100-06	7.2500-07	2.0500-01	2.5300-11	5.9000-01	2.0500-01
-5.2	9.6800-06	1.0400-06	1.7400-01	1.6600-11	6.5100-01	1.7400-01
-5.0	1.7500-05	1.4500-06	1.4700-01	1.0800-11	7.0700-01	1.4700-01
-4.8	3.0800-05	2.0000-06	1.2200-01	7.0400-12	7.5600-01	1.2200-01
-4.6	5.3100-05	2.7000-06	1.0100-01	4.5600-12	7.9800-01	1.0100-01
-4.4	9.0200-05	3.5900-06	8.2900-02	2.9400-12	8.3400-01	8.2900-02
-4.2	1.5100-04	4.7400-06	6.7600-02	1.8900-12	8.6500-01	6.7600-02
-4.0	2.5000-04	6.1900-06	5.4900-02	1.2100-12	8.9000-01	5.4900-02
-3.8	4.1100-04	8.0200-06	4.4400-02	7.7300-13	9.1100-01	4.4400-02
-3.6	6.6900-04	1.0300-05	3.5700-02	4.9300-13	9.2800-01	3.5800-02
-3.4	1.0800-03	1.3300-05	2.8700-02	3.1400-13	9.4100-01	2.8700-02
-3.2	1.7400-03	1.6900-05	2.3000-02	2.0000-13	9.5200-01	2.3100-02
-3.0	2.8000-03	2.1500-05	1.8400-02	1.2700-13	9.6000-01	1.8500-02
-2.8	4.4600-03	2.7300-05	1.4700-02	8.1000-14	9.6600-01	1.4800-02
-2.6	7.0800-03	3.4500-05	1.1800-02	5.1500-14	9.6900-01	1.1800-02
-2.4	1.1200-02	4.3300-05	9.3800-03	3.2800-14	9.7000-01	9.4200-03
-2.2	1.7500-02	5.4100-05	7.4700-03	2.0900-14	9.6700-01	7.5200-03
-2.0	2.7000-02	6.7000-05	5.9400-03	1.3400-14	9.6100-01	6.0100-03
-1.8	4.1100-02	8.2100-05	4.7200-03	8.5500-15	9.4900-01	4.8000-03
-1.6	6.1400-02	9.9000-05	3.7400-03	5.4900-15	9.3100-01	3.8400-03
-1.4	8.9500-02	1.1700-04	2.9500-03	3.5400-15	9.0400-01	3.0700-03
-1.2	1.2600-01	1.3600-04	2.3200-03	2.2900-15	8.6900-01	2.4600-03
-1.0	1.7300-01	1.5300-04	1.8100-03	1.4800-15	8.2300-01	1.9700-03
-.8	2.2800-01	1.6700-04	1.4100-03	9.5400-16	7.6900-01	1.5700-03
-.6	2.9100-01	1.7800-04	1.0800-03	6.1300-16	7.0700-01	1.2600-03
-.4	3.5800-01	1.8400-04	8.1800-04	3.9100-16	6.4000-01	1.0000-03
-.2	4.2900-01	1.8500-04	6.1200-04	2.4700-16	5.7000-01	7.9600-04
.0	4.9900-01	1.8100-04	4.5100-04	1.5400-16	5.0000-01	6.3200-04
.2	5.6700-01	1.7200-04	3.2800-04	9.4100-17	4.3200-01	5.0000-04
.4	6.3000-01	1.6100-04	2.3500-04	5.6700-17	3.6900-01	3.9500-04
.6	6.8800-01	1.4700-04	1.6600-04	3.3600-17	3.1200-01	3.1200-04
.8	7.3900-01	1.3200-04	1.1500-04	1.9600-17	2.6000-01	2.4700-04
1.0	7.8500-01	1.1600-04	7.9500-05	1.1200-17	2.1500-01	1.9600-04
1.2	8.2400-01	1.0200-04	5.4200-05	6.3200-18	1.7600-01	1.5600-04
1.4	8.5700-01	8.8200-05	3.6700-05	3.5100-18	1.4300-01	1.2500-04
1.6	8.8500-01	7.6300-05	2.4700-05	1.9200-18	1.1500-01	1.0100-04
1.8	9.0800-01	6.6200-05	1.6600-05	1.0300-18	9.1500-02	8.2800-05
2.0	9.2800-01	5.8700-05	1.1200-05	5.4500-19	7.1900-02	6.9400-05
2.2	9.4400-01	5.2500-05	7.6800-06	2.8100-19	5.5400-02	6.0100-05

T= 8500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.6269+00	5.1378+01	5.5005+01	1.1782+02	-4.9474+00	3.6274+00
-6.8	3.4985+00	4.8665+01	5.2164+01	1.1347+02	-4.7631+00	3.4990+00
-6.6	3.3526+00	4.5583+01	4.8935+01	1.0881+02	-4.5816+00	3.3532+00
-6.4	3.1968+00	4.2292+01	4.5489+01	1.0401+02	-4.4023+00	3.1974+00
-6.2	3.0396+00	3.8971+01	4.2011+01	9.9252+01	-4.2242+00	3.0403+00
-6.0	2.8885+00	3.5777+01	3.8666+01	9.4693+01	-4.0463+00	2.8891+00
-5.8	2.7488+00	3.2826+01	3.5575+01	9.0445+01	-3.8678+00	2.7495+00
-5.6	2.6239+00	3.0185+01	3.2809+01	8.6567+01	-3.6880+00	2.6245+00
-5.4	2.5148+00	2.7881+01	3.0396+01	8.3080+01	-3.5065+00	2.5154+00
-5.2	2.4216+00	2.5911+01	2.8332+01	7.9974+01	-3.3229+00	2.4221+00
-5.0	2.3431+00	2.4252+01	2.6595+01	7.7218+01	-3.1372+00	2.3436+00
-4.8	2.2779+00	2.2872+01	2.5150+01	7.4775+01	-2.9495+00	2.2783+00
-4.6	2.2241+00	2.1736+01	2.3960+01	7.2602+01	-2.7598+00	2.2245+00
-4.4	2.1801+00	2.0806+01	2.2986+01	7.0659+01	-2.5685+00	2.1805+00
-4.2	2.1443+00	2.0050+01	2.2194+01	6.8907+01	-2.3757+00	2.1446+00
-4.0	2.1152+00	1.9437+01	2.1552+01	6.7314+01	-2.1816+00	2.1155+00
-3.8	2.0917+00	1.8941+01	2.1032+01	6.5849+01	-1.9865+00	2.0919+00
-3.6	2.0725+00	1.8538+01	2.0611+01	6.4488+01	-1.7905+00	2.0727+00
-3.4	2.0566+00	1.8210+01	2.0267+01	6.3209+01	-1.5938+00	2.0569+00
-3.2	2.0433+00	1.7938+01	1.9981+01	6.1993+01	-1.3966+00	2.0435+00
-3.0	2.0316+00	1.7707+01	1.9738+01	6.0823+01	-1.1991+00	2.0318+00
-2.8	2.0206+00	1.7499+01	1.9520+01	5.9683+01	-1.0015+00	2.0208+00
-2.6	2.0093+00	1.7299+01	1.9308+01	5.8555+01	-8.0394-01	2.0094+00
-2.4	1.9963+00	1.7086+01	1.9082+01	5.7420+01	-6.0675-01	1.9964+00
-2.2	1.9801+00	1.6837+01	1.8817+01	5.6255+01	-4.1029-01	1.9802+00
-2.0	1.9587+00	1.6522+01	1.8481+01	5.5033+01	-2.1502-01	1.9587+00
-1.8	1.9297+00	1.6110+01	1.8039+01	5.3725+01	-2.1496-02	1.9297+00
-1.6	1.8909+00	1.5568+01	1.7459+01	5.2303+01	1.6968-01	1.8909+00
-1.4	1.8408+00	1.4876+01	1.6717+01	5.0751+01	3.5802-01	1.8407+00
-1.2	1.7793+00	1.4032+01	1.5811+01	4.9073+01	5.4326-01	1.7792+00
-1.0	1.7081+00	1.3059+01	1.4767+01	4.7297+01	7.2554-01	1.7079+00
-.8	1.6308+00	1.2003+01	1.3634+01	4.5472+01	9.0542-01	1.6305+00
-.6	1.5514+00	1.0920+01	1.2471+01	4.3656+01	1.0837+00	1.5509+00
-.4	1.4740+00	9.8636+00	1.1338+01	4.1903+01	1.2615+00	1.4732+00
-.2	1.4017+00	8.8757+00	1.0277+01	4.0253+01	1.4397+00	1.4005+00
.0	1.3366+00	7.9829+00	9.3195+00	3.8730+01	1.6190+00	1.3348+00
.2	1.2797+00	7.1978+00	8.4775+00	3.7343+01	1.8001+00	1.2770+00
.4	1.2314+00	6.5222+00	7.7536+00	3.6090+01	1.9834+00	1.2272+00
.6	1.1914+00	5.9504+00	7.1419+00	3.4960+01	2.1691+00	1.1851+00
.8	1.1596+00	5.4729+00	6.6325+00	3.3942+01	2.3573+00	1.1498+00
1.0	1.1358+00	5.0780+00	6.2138+00	3.3019+01	2.5483+00	1.1207+00
1.2	1.1200+00	4.7541+00	5.8742+00	3.2176+01	2.7422+00	1.0967+00
1.4	1.1133+00	4.4900+00	5.6034+00	3.1398+01	2.9396+00	1.0771+00
1.6	1.1175+00	4.2760+00	5.3935+00	3.0670+01	3.1413+00	1.0611+00
1.8	1.1363+00	4.1035+00	5.2397+00	2.9980+01	3.3485+00	1.0481+00
2.0	1.1756+00	3.9660+00	5.1415+00	2.9311+01	3.5633+00	1.0374+00
2.2	1.2456+00	3.8585+00	5.1041+00	2.8647+01	3.7884+00	1.0286+00

T= 8600

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.3900-09	7.5200-09	4.5800-01	1.1100-09	8.4900-02	4.5800-01
-6.8	1.0500-08	1.5700-08	4.4000-01	7.2500-10	1.2000-01	4.4000-01
-6.6	3.0000-08	3.1200-08	4.1700-01	4.7600-10	1.6500-01	4.1700-01
-6.4	7.9900-08	5.8700-08	3.9000-01	3.1500-10	2.1900-01	3.9000-01
-6.2	1.9800-07	1.0400-07	3.6000-01	2.0900-10	2.8000-01	3.6000-01
-6.0	4.5700-07	1.7700-07	3.2600-01	1.3900-10	3.4700-01	3.2600-01
-5.8	9.9300-07	2.8600-07	2.9100-01	9.2000-11	4.1700-01	2.9100-01
-5.6	2.0500-06	4.4300-07	2.5600-01	6.1000-11	4.8700-01	2.5600-01
-5.4	4.0300-06	6.6400-07	2.2200-01	4.0300-11	5.5500-01	2.2200-01
-5.2	7.6200-06	9.6500-07	1.9000-01	2.6500-11	6.1900-01	1.9000-01
-5.0	1.4000-05	1.3700-06	1.6100-01	1.7300-11	6.7800-01	1.6100-01
-4.8	2.4900-05	1.8900-06	1.3500-01	1.1300-11	7.3000-01	1.3500-01
-4.6	4.3400-05	2.5800-06	1.1200-01	7.3200-12	7.7600-01	1.1200-01
-4.4	7.4400-05	3.4600-06	9.2200-02	4.7300-12	8.1600-01	9.2200-02
-4.2	1.2500-04	4.5900-06	7.5400-02	3.0400-12	8.4900-01	7.5400-02
-4.0	2.0900-04	6.0200-06	6.1400-02	1.9500-12	8.7700-01	6.1400-02
-3.8	3.4500-04	7.8400-06	4.9700-02	1.2500-12	9.0000-01	4.9700-02
-3.6	5.6300-04	1.0100-05	4.0100-02	7.9900-13	9.1900-01	4.0200-02
-3.4	9.1500-04	1.3000-05	3.2300-02	5.1000-13	9.3400-01	3.2300-02
-3.2	1.4800-03	1.6700-05	2.5900-02	3.2500-13	9.4700-01	2.6000-02
-3.0	2.3700-03	2.1300-05	2.0800-02	2.0700-13	9.5600-01	2.0800-02
-2.8	3.8000-03	2.7000-05	1.6600-02	1.3200-13	9.6300-01	1.6600-02
-2.6	6.0400-03	3.4100-05	1.3300-02	8.3700-14	9.6700-01	1.3300-02
-2.4	9.5500-03	4.3000-05	1.0600-02	5.3300-14	9.6900-01	1.0600-02
-2.2	1.5000-02	5.3800-05	8.4400-03	3.4000-14	9.6800-01	8.5000-03
-2.0	2.3300-02	6.6900-05	6.7200-03	2.1700-14	9.6300-01	6.7900-03
-1.8	3.5700-02	8.2300-05	5.3400-03	1.3900-14	9.5300-01	5.4200-03
-1.6	5.3700-02	9.9800-05	4.2400-03	8.9100-15	9.3800-01	4.3400-03
-1.4	7.8900-02	1.1900-04	3.3500-03	5.7400-15	9.1400-01	3.4700-03
-1.2	1.1300-01	1.3900-04	2.6400-03	3.7000-15	8.8200-01	2.7800-03
-1.0	1.5600-01	1.5800-04	2.0700-03	2.4000-15	8.4000-01	2.2200-03
-.8	2.0800-01	1.7500-04	1.6100-03	1.5500-15	7.8800-01	1.7800-03
-.6	2.6800-01	1.8800-04	1.2400-03	9.9700-16	7.2900-01	1.4200-03
-.4	3.3500-01	1.9600-04	9.4100-04	6.3800-16	6.6300-01	1.1400-03
-.2	4.0400-01	1.9800-04	7.0700-04	4.0400-16	5.9400-01	9.0500-04
.0	4.7500-01	1.9600-04	5.2400-04	2.5300-16	5.2400-01	7.1900-04
.2	5.4400-01	1.8800-04	3.8200-04	1.5600-16	4.5500-01	5.7000-04
.4	6.0900-01	1.7700-04	2.7500-04	9.4300-17	3.9000-01	4.5200-04
.6	6.6900-01	1.6200-04	1.9500-04	5.6200-17	3.3000-01	3.5800-04
.8	7.2300-01	1.4700-04	1.3600-04	3.2900-17	2.7700-01	2.8300-04
1.0	7.7000-01	1.3000-04	9.4300-05	1.8900-17	2.2900-01	2.2500-04
1.2	8.1100-01	1.1400-04	6.4600-05	1.0700-17	1.8800-01	1.7900-04
1.4	8.4600-01	9.9700-05	4.3800-05	5.9900-18	1.5300-01	1.4400-04
1.6	8.7600-01	8.6500-05	2.9600-05	3.2900-18	1.2400-01	1.1600-04
1.8	9.0100-01	7.5300-05	2.0000-05	1.7800-18	9.8500-02	9.5300-05
2.0	9.2200-01	6.6400-05	1.3500-05	9.4500-19	7.7500-02	7.9900-05
2.2	9.4000-01	6.0100-05	9.2400-06	4.9100-19	5.9800-02	6.9300-05

T= 8600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.6864+00	5.2096+01	5.5783+01	1.1915+02	-4.9353+00	3.6869+00
-6.8	3.5696+00	4.9657+01	5.3226+01	1.1504+02	-4.7493+00	3.5701+00
-6.6	3.4322+00	4.6787+01	5.0220+01	1.1055+02	-4.5663+00	3.4328+00
-6.4	3.2806+00	4.3622+01	4.6902+01	1.0584+02	-4.3859+00	3.2813+00
-6.2	3.1232+00	4.0333+01	4.3456+01	1.0108+02	-4.2073+00	3.1239+00
-6.0	2.9680+00	3.7091+01	4.0059+01	9.6433+01	-4.0294+00	2.9687+00
-5.8	2.8217+00	3.4034+01	3.6856+01	9.2043+01	-3.8514+00	2.8224+00
-5.6	2.6886+00	3.1253+01	3.3942+01	8.7994+01	-3.6724+00	2.6893+00
-5.4	2.5710+00	2.8796+01	3.1367+01	8.4327+01	-3.4918+00	2.5717+00
-5.2	2.4695+00	2.6674+01	2.9143+01	8.1044+01	-3.3093+00	2.4701+00
-5.0	2.3833+00	2.4872+01	2.7256+01	7.8126+01	-3.1247+00	2.3838+00
-4.8	2.3112+00	2.3365+01	2.5676+01	7.5538+01	-2.9381+00	2.3117+00
-4.6	2.2515+00	2.2117+01	2.4369+01	7.3240+01	-2.7494+00	2.2519+00
-4.4	2.2025+00	2.1093+01	2.3296+01	7.1191+01	-2.5590+00	2.2029+00
-4.2	2.1625+00	2.0258+01	2.2420+01	6.9351+01	-2.3670+00	2.1629+00
-4.0	2.1300+00	1.9579+01	2.1709+01	6.7684+01	-2.1735+00	2.1303+00
-3.8	2.1036+00	1.9030+01	2.1133+01	6.6160+01	-1.9789+00	2.1039+00
-3.6	2.0821+00	1.8584+01	2.0666+01	6.4751+01	-1.7834+00	2.0824+00
-3.4	2.0646+00	1.8222+01	2.0286+01	6.3434+01	-1.5871+00	2.0648+00
-3.2	2.0499+00	1.7924+01	1.9974+01	6.2189+01	-1.3902+00	2.0501+00
-3.0	2.0373+00	1.7674+01	1.9711+01	6.0997+01	-1.1928+00	2.0375+00
-2.8	2.0258+00	1.7455+01	1.9480+01	5.9843+01	-9.9530-01	2.0260+00
-2.6	2.0144+00	1.7250+01	1.9264+01	5.8708+01	-7.9775-01	2.0146+00
-2.4	2.0020+00	1.7041+01	1.9043+01	5.7574+01	-6.0045-01	2.0021+00
-2.2	1.9869+00	1.6806+01	1.8793+01	5.6421+01	-4.0373-01	1.9870+00
-2.0	1.9673+00	1.6517+01	1.8485+01	5.5221+01	-2.0802-01	1.9674+00
-1.8	1.9411+00	1.6144+01	1.8085+01	5.3947+01	-1.3858-02	1.9411+00
-1.6	1.9058+00	1.5653+01	1.7558+01	5.2570+01	1.7817-01	1.9058+00
-1.4	1.8596+00	1.5019+01	1.6878+01	5.1069+01	3.6751-01	1.8595+00
-1.2	1.8018+00	1.4232+01	1.6034+01	4.9439+01	5.5380-01	1.8017+00
-1.0	1.7336+00	1.3308+01	1.5042+01	4.7700+01	7.3705-01	1.7334+00
-.8	1.6579+00	1.2284+01	1.3942+01	4.5896+01	9.1766-01	1.6576+00
-.6	1.5787+00	1.1215+01	1.2794+01	4.4081+01	1.0964+00	1.5782+00
-.4	1.5003+00	1.0155+01	1.1655+01	4.2312+01	1.2743+00	1.4994+00
-.2	1.4260+00	9.1497+00	1.0576+01	4.0633+01	1.4522+00	1.4247+00
.0	1.3583+00	8.2316+00	9.5899+00	3.9074+01	1.6311+00	1.3564+00
.2	1.2987+00	7.4173+00	8.7160+00	3.7649+01	1.8116+00	1.2958+00
.4	1.2476+00	6.7118+00	7.9593+00	3.6357+01	1.9942+00	1.2433+00
.6	1.2051+00	6.1115+00	7.3166+00	3.5192+01	2.1791+00	1.1986+00
.8	1.1710+00	5.6080+00	6.7789+00	3.4142+01	2.3666+00	1.1611+00
1.0	1.1451+00	5.1903+00	6.3354+00	3.3192+01	2.5569+00	1.1299+00
1.2	1.1277+00	4.8467+00	5.9743+00	3.2325+01	2.7503+00	1.1042+00
1.4	1.1195+00	4.5659+00	5.6855+00	3.1527+01	2.9471+00	1.0832+00
1.6	1.1226+00	4.3379+00	5.4604+00	3.0783+01	3.1483+00	1.0660+00
1.8	1.1403+00	4.1538+00	5.2941+00	3.0079+01	3.3551+00	1.0519+00
2.0	1.1788+00	4.0066+00	5.1854+00	2.9399+01	3.5695+00	1.0404+00
2.2	1.2480+00	3.8912+00	5.1392+00	2.8726+01	3.7943+00	1.0309+00

T= 8700

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.0000-09	5.6200-09	4.6500-01	1.7700-09	7.0000-02	4.6500-01
-6.8	6.3900-09	1.2000-08	4.5000-01	1.1500-09	1.0100-01	4.5000-01
-6.6	1.9100-08	2.4600-08	4.3000-01	7.5000-10	1.4100-01	4.3000-01
-6.4	5.2800-08	4.7500-08	4.0500-01	4.9400-10	1.9000-01	4.0500-01
-6.2	1.3600-07	8.7000-08	3.7600-01	3.2700-10	2.4800-01	3.7600-01
-6.0	3.2400-07	1.5100-07	3.4400-01	2.1700-10	3.1200-01	3.4400-01
-5.8	7.2700-07	2.5000-07	3.1000-01	1.4400-10	3.8100-01	3.1000-01
-5.6	1.5400-06	3.9600-07	2.7500-01	9.5700-11	4.5100-01	2.7500-01
-5.4	3.1000-06	6.0300-07	2.4000-01	6.3300-11	5.2000-01	2.4000-01
-5.2	5.9800-06	8.9000-07	2.0700-01	4.1700-11	5.8700-01	2.0700-01
-5.0	1.1100-05	1.2800-06	1.7600-01	2.7400-11	6.4800-01	1.7600-01
-4.8	2.0100-05	1.7900-06	1.4800-01	1.7900-11	7.0400-01	1.4800-01
-4.6	3.5500-05	2.4600-06	1.2400-01	1.1600-11	7.5300-01	1.2400-01
-4.4	6.1400-05	3.3300-06	1.0200-01	7.5300-12	7.9600-01	1.0200-01
-4.2	1.0400-04	4.4400-06	8.3800-02	4.8500-12	8.3200-01	8.3800-02
-4.0	1.7500-04	5.8500-06	6.8400-02	3.1200-12	8.6300-01	6.8400-02
-3.8	2.9000-04	7.6500-06	5.5600-02	2.0000-12	8.8900-01	5.5600-02
-3.6	4.7600-04	9.9200-06	4.4900-02	1.2800-12	9.1000-01	4.4900-02
-3.4	7.7500-04	1.2800-05	3.6200-02	8.1700-13	9.2700-01	3.6200-02
-3.2	1.2600-03	1.6400-05	2.9100-02	5.2100-13	9.4000-01	2.9100-02
-3.0	2.0200-03	2.1000-05	2.3300-02	3.3200-13	9.5100-01	2.3300-02
-2.8	3.2400-03	2.6700-05	1.8700-02	2.1100-13	9.5900-01	1.8700-02
-2.6	5.1600-03	3.3800-05	1.4900-02	1.3500-13	9.6500-01	1.4900-02
-2.4	8.1900-03	4.2600-05	1.1900-02	8.5700-14	9.6800-01	1.1900-02
-2.2	1.2900-02	5.3500-05	9.5100-03	5.4600-14	9.6800-01	9.5100-03
-2.0	2.0100-02	6.6700-05	7.5800-03	3.4900-14	9.6500-01	7.5800-03
-1.8	3.1000-02	8.2300-05	6.0300-03	2.2300-14	9.5700-01	6.0300-03
-1.6	4.6900-02	1.0000-04	4.7800-03	1.4300-14	9.4300-01	4.7800-03
-1.4	6.9500-02	1.2100-04	3.7900-03	9.2100-15	9.2300-01	3.7900-03
-1.2	1.0000-01	1.4200-04	2.9900-03	5.9400-15	8.9300-01	2.9900-03
-1.0	1.4000-01	1.6300-04	2.3400-03	3.8400-15	8.5500-01	2.3400-03
-.8	1.9000-01	1.8200-04	1.8300-03	2.4900-15	8.0600-01	1.8300-03
-.6	2.4800-01	1.9700-04	1.4100-03	1.6000-15	7.4900-01	1.4100-03
-.4	3.1200-01	2.0700-04	1.0800-03	1.0300-15	6.8500-01	1.0800-03
-.2	3.8100-01	2.1200-04	8.1400-04	6.5300-16	6.1700-01	8.1400-04
.0	4.5200-01	2.1100-04	6.0500-04	4.1000-16	5.4700-01	6.0500-04
.2	5.2100-01	2.0500-04	4.4400-04	2.5400-16	4.7800-01	4.4400-04
.4	5.8800-01	1.9400-04	3.2100-04	1.5500-16	4.1100-01	3.2100-04
.6	6.5000-01	1.7900-04	2.2900-04	9.2700-17	3.5000-01	2.2900-04
.8	7.0600-01	1.6300-04	1.6100-04	5.4600-17	2.9400-01	1.6100-04
1.0	7.5500-01	1.4500-04	1.1100-04	3.1600-17	2.4400-01	1.1100-04
1.2	7.9800-01	1.2800-04	7.6600-05	1.8000-17	2.0100-01	7.6600-05
1.4	8.3600-01	1.1200-04	5.2100-05	1.0100-17	1.6400-01	5.2100-05
1.6	8.6700-01	9.7800-05	3.5300-05	5.5800-18	1.3200-01	3.5300-05
1.8	8.9400-01	8.5400-05	2.3900-05	3.0300-18	1.0600-01	2.3900-05
2.0	9.1700-01	7.5500-05	1.6200-05	1.6200-18	8.3300-02	1.6200-05
2.2	9.3500-01	6.8500-05	1.1100-05	8.4800-19	6.4300-02	1.1100-05



T= 8700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.7379+00	5.2636+01	5.6374+01	1.2029+02	-4.9242+00	3.7385+00
-6.8	3.6333+00	5.0476+01	5.4109+01	1.1643+02	-4.7366+00	3.6339+00
-6.6	3.5060+00	4.7847+01	5.1353+01	1.1216+02	-4.5521+00	3.5067+00
-6.4	3.3609+00	4.4850+01	4.8211+01	1.0758+02	-4.3704+00	3.3616+00
-6.2	3.2055+00	4.1639+01	4.4845+01	1.0286+02	-4.1910+00	3.2063+00
-6.0	3.0482+00	3.8390+01	4.1438+01	9.8168+01	-4.0128+00	3.0490+00
-5.8	2.8966+00	3.5257+01	3.8154+01	9.3667+01	-3.8350+00	2.8974+00
-5.6	2.7562+00	3.2357+01	3.5113+01	8.9465+01	-3.6566+00	2.7570+00
-5.4	2.6304+00	2.9757+01	3.2387+01	8.5626+01	-3.4769+00	2.6311+00
-5.2	2.5205+00	2.7485+01	3.0006+01	8.2169+01	-3.2954+00	2.5212+00
-5.0	2.4264+00	2.5541+01	2.7967+01	7.9086+01	-3.1119+00	2.4270+00
-4.8	2.3471+00	2.3903+01	2.6250+01	7.6349+01	-2.9263+00	2.3477+00
-4.6	2.2812+00	2.2539+01	2.4820+01	7.3920+01	-2.7387+00	2.2817+00
-4.4	2.2268+00	2.1415+01	2.3642+01	7.1759+01	-2.5492+00	2.2273+00
-4.2	2.1823+00	2.0496+01	2.2678+01	6.9824+01	-2.3580+00	2.1828+00
-4.0	2.1461+00	1.9747+01	2.1893+01	6.8080+01	-2.1652+00	2.1465+00
-3.8	2.1166+00	1.9140+01	2.1257+01	6.6491+01	-1.9712+00	2.1170+00
-3.6	2.0927+00	1.8648+01	2.0741+01	6.5030+01	-1.7762+00	2.0930+00
-3.4	2.0732+00	1.8249+01	2.0322+01	6.3672+01	-1.5802+00	2.0735+00
-3.2	2.0570+00	1.7922+01	1.9979+01	6.2394+01	-1.3836+00	2.0573+00
-3.0	2.0433+00	1.7650+01	1.9693+01	6.1178+01	-1.1865+00	2.0436+00
-2.8	2.0312+00	1.7417+01	1.9448+01	6.0006+01	-9.8913-01	2.0314+00
-2.6	2.0196+00	1.7205+01	1.9224+01	5.8862+01	-7.9162-01	2.0197+00
-2.4	2.0074+00	1.6997+01	1.9004+01	5.7726+01	-5.9426-01	2.0075+00
-2.2	1.9931+00	1.6771+01	1.8764+01	5.6580+01	-3.9734-01	1.9933+00
-2.0	1.9752+00	1.6503+01	1.8478+01	5.5397+01	-2.0128-01	1.9753+00
-1.8	1.9513+00	1.6162+01	1.8113+01	5.4152+01	-6.5639-03	1.9513+00
-1.6	1.9191+00	1.5716+01	1.7635+01	5.2815+01	1.8622-01	1.9192+00
-1.4	1.8766+00	1.5136+01	1.7013+01	5.1361+01	3.7649-01	1.8766+00
-1.2	1.8226+00	1.4407+01	1.6229+01	4.9779+01	5.6381-01	1.8225+00
-1.0	1.7576+00	1.3533+01	1.5291+01	4.8081+01	7.4804-01	1.7574+00
-.8	1.6840+00	1.2547+01	1.4231+01	4.6301+01	9.2945-01	1.6836+00
-.6	1.6055+00	1.1496+01	1.3102+01	4.4494+01	1.1087+00	1.6049+00
-.4	1.5263+00	1.0438+01	1.1964+01	4.2714+01	1.2868+00	1.5255+00
-.2	1.4503+00	9.4204+00	1.0871+01	4.1011+01	1.4646+00	1.4491+00
.0	1.3803+00	8.4802+00	9.8605+00	3.9420+01	1.6431+00	1.3784+00
.2	1.3180+00	7.6386+00	8.9567+00	3.7957+01	1.8230+00	1.3152+00
.4	1.2642+00	6.9042+00	8.1684+00	3.6628+01	2.0049+00	1.2599+00
.6	1.2192+00	6.2758+00	7.4950+00	3.5428+01	2.1892+00	1.2126+00
.8	1.1827+00	5.7464+00	6.9291+00	3.4346+01	2.3760+00	1.1728+00
1.0	1.1548+00	5.3056+00	6.4604+00	3.3368+01	2.5656+00	1.1395+00
1.2	1.1357+00	4.9420+00	6.0776+00	3.2477+01	2.7584+00	1.1121+00
1.4	1.1261+00	4.6442+00	5.7703+00	3.1659+01	2.9547+00	1.0895+00
1.6	1.1279+00	4.4018+00	5.5297+00	3.0898+01	3.1554+00	1.0711+00
1.8	1.1445+00	4.2058+00	5.3503+00	3.0179+01	3.3618+00	1.0559+00
2.0	1.1822+00	4.0487+00	5.2308+00	2.9487+01	3.5758+00	1.0435+00
2.2	1.2506+00	3.9249+00	5.1756+00	2.8805+01	3.8003+00	1.0333+00

T= 8800

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.1800-09	4.1700-09	4.7100-01	2.7800-09	5.7500-02	4.7100-01
-6.8	3.8800-09	9.1500-09	4.5800-01	1.8000-09	8.3900-02	4.5800-01
-6.6	1.2000-08	1.9200-08	4.4000-01	1.1700-09	1.1900-01	4.4000-01
-6.4	3.4500-08	3.8100-08	4.1800-01	7.6900-10	1.6400-01	4.1800-01
-6.2	9.2000-08	7.1700-08	3.9100-01	5.0800-10	2.1700-01	3.9100-01
-6.0	2.2800-07	1.2800-07	3.6100-01	3.3700-10	2.7800-01	3.6100-01
-5.8	5.2800-07	2.1700-07	3.2700-01	2.2400-10	3.4500-01	3.2700-01
-5.6	1.1500-06	3.5100-07	2.9300-01	1.4900-10	4.1500-01	2.9300-01
-5.4	2.3700-06	5.4500-07	2.5700-01	9.8500-11	4.8500-01	2.5700-01
-5.2	4.6800-06	8.1700-07	2.2300-01	6.5100-11	5.5300-01	2.2300-01
-5.0	8.8600-06	1.1900-06	1.9100-01	4.2800-11	6.1700-01	1.9100-01
-4.8	1.6300-05	1.6900-06	1.6200-01	2.8000-11	6.7600-01	1.6200-01
-4.6	2.9000-05	2.3400-06	1.3600-01	1.8300-11	7.2900-01	1.3600-01
-4.4	5.0600-05	3.1900-06	1.1300-01	1.1800-11	7.7500-01	1.1300-01
-4.2	8.6700-05	4.2800-06	9.2800-02	7.6500-12	8.1400-01	9.2800-02
-4.0	1.4600-04	5.6700-06	7.6000-02	4.9300-12	8.4800-01	7.6000-02
-3.8	2.4400-04	7.4500-06	6.1800-02	3.1700-12	8.7600-01	6.1800-02
-3.6	4.0200-04	9.6900-06	5.0100-02	2.0300-12	8.9900-01	5.0100-02
-3.4	6.5800-04	1.2500-05	4.0500-02	1.3000-12	9.1800-01	4.0500-02
-3.2	1.0700-03	1.6100-05	3.2600-02	8.2700-13	9.3400-01	3.2600-02
-3.0	1.7300-03	2.0600-05	2.6200-02	5.2700-13	9.4600-01	2.6200-02
-2.8	2.7700-03	2.6300-05	2.1000-02	3.3600-13	9.5500-01	2.1000-02
-2.6	4.4300-03	3.3400-05	1.6800-02	2.1400-13	9.6200-01	1.6800-02
-2.4	7.0300-03	4.2200-05	1.3400-02	1.3600-13	9.6600-01	1.3400-02
-2.2	1.1100-02	5.3100-05	1.0700-02	8.7000-14	9.6700-01	1.0700-02
-2.0	1.7400-02	6.6300-05	8.5200-03	5.5500-14	9.6500-01	8.5800-03
-1.8	2.6900-02	8.2200-05	6.7800-03	3.5500-14	9.5900-01	6.8600-03
-1.6	4.1000-02	1.0100-04	5.3900-03	2.2800-14	9.4800-01	5.4900-03
-1.4	6.1300-02	1.2200-04	4.2700-03	1.4600-14	9.3000-01	4.3900-03
-1.2	8.9300-02	1.4400-04	3.3700-03	9.4400-15	9.0400-01	3.5200-03
-1.0	1.2600-01	1.6700-04	2.6500-03	6.1000-15	8.6800-01	2.8200-03
-.8	1.7300-01	1.8800-04	2.0700-03	3.9500-15	8.2300-01	2.2600-03
-.6	2.2800-01	2.0600-04	1.6100-03	2.5500-15	7.6900-01	1.8100-03
-.4	2.9000-01	2.1900-04	1.2300-03	1.6400-15	7.0700-01	1.4500-03
-.2	3.5800-01	2.2600-04	9.3200-04	1.0500-15	6.4000-01	1.1600-03
.0	4.2800-01	2.2700-04	6.9700-04	6.5900-16	5.7000-01	9.2400-04
.2	4.9900-01	2.2100-04	5.1300-04	4.1000-16	5.0000-01	7.3500-04
.4	5.6600-01	2.1100-04	3.7300-04	2.5100-16	4.3200-01	5.8400-04
.6	6.3000-01	1.9700-04	2.6700-04	1.5100-16	3.6900-01	4.6300-04
.8	6.8800-01	1.8000-04	1.8800-04	8.9500-17	3.1100-01	3.6800-04
1.0	7.4000-01	1.6200-04	1.3100-04	5.2100-17	2.6000-01	2.9300-04
1.2	7.8500-01	1.4300-04	9.0400-05	2.9900-17	2.1400-01	2.3400-04
1.4	8.2500-01	1.2600-04	6.1800-05	1.6800-17	1.7500-01	1.8800-04
1.6	8.5800-01	1.1000-04	4.1900-05	9.3600-18	1.4200-01	1.5200-04
1.8	8.8600-01	9.6500-05	2.8400-05	5.1100-18	1.1300-01	1.2500-04
2.0	9.1000-01	8.5600-05	1.9300-05	2.7500-18	8.9300-02	1.0500-04
2.2	9.3100-01	7.7900-05	1.3200-05	1.4500-18	6.9100-02	9.1200-05

T= 8800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.7820+00	5.3012+01	5.6794+01	1.2127+02	-4.9142+00	3.7826+00
-6.8	3.6896+00	5.1125+01	5.4814+01	1.1766+02	-4.7249+00	3.6902+00
-6.6	3.5735+00	4.8754+01	5.2328+01	1.1362+02	-4.5388+00	3.5742+00
-6.4	3.4367+00	4.5960+01	4.9396+01	1.0921+02	-4.3558+00	3.4375+00
-6.2	3.2855+00	4.2871+01	4.6156+01	1.0457+02	-4.1753+00	3.2863+00
-6.0	3.1281+00	3.9655+01	4.2784+01	9.9880+01	-3.9966+00	3.1290+00
-5.8	2.9728+00	3.6481+01	3.9454+01	9.5301+01	-3.8188+00	2.9737+00
-5.6	2.8261+00	3.3484+01	3.6311+01	9.0969+01	-3.6407+00	2.8270+00
-5.4	2.6926+00	3.0756+01	3.3448+01	8.6970+01	-3.4617+00	2.6934+00
-5.2	2.5745+00	2.8342+01	3.0917+01	8.3345+01	-3.2812+00	2.5753+00
-5.0	2.4725+00	2.6256+01	2.8728+01	8.0097+01	-3.0988+00	2.4732+00
-4.8	2.3858+00	2.4484+01	2.6870+01	7.7207+01	-2.9143+00	2.3865+00
-4.6	2.3133+00	2.3001+01	2.5315+01	7.4643+01	-2.7277+00	2.3139+00
-4.4	2.2532+00	2.1773+01	2.4027+01	7.2364+01	-2.5391+00	2.2538+00
-4.2	2.2039+00	2.0765+01	2.2969+01	7.0329+01	-2.3487+00	2.2044+00
-4.0	2.1636+00	1.9942+01	2.2106+01	6.8501+01	-2.1567+00	2.1641+00
-3.8	2.1308+00	1.9273+01	2.1404+01	6.6844+01	-1.9634+00	2.1313+00
-3.6	2.1042+00	1.8731+01	2.0835+01	6.5327+01	-1.7688+00	2.1046+00
-3.4	2.0825+00	1.8291+01	2.0374+01	6.3923+01	-1.5733+00	2.0829+00
-3.2	2.0647+00	1.7933+01	1.9998+01	6.2610+01	-1.3771+00	2.0650+00
-3.0	2.0498+00	1.7637+01	1.9687+01	6.1366+01	-1.1802+00	2.0501+00
-2.8	2.0368+00	1.7386+01	1.9423+01	6.0175+01	-9.8297-01	2.0370+00
-2.6	2.0248+00	1.7164+01	1.9189+01	5.9018+01	-7.8554-01	2.0250+00
-2.4	2.0126+00	1.6953+01	1.8966+01	5.7877+01	-5.8816-01	2.0128+00
-2.2	1.9990+00	1.6734+01	1.8733+01	5.6734+01	-3.9110-01	1.9992+00
-2.0	1.9823+00	1.6482+01	1.8464+01	5.5565+01	-1.9475-01	1.9824+00
-1.8	1.9605+00	1.6168+01	1.8129+01	5.4343+01	4.4109-04	1.9606+00
-1.6	1.9312+00	1.5762+01	1.7693+01	5.3041+01	1.9390-01	1.9312+00
-1.4	1.8922+00	1.5233+01	1.7125+01	5.1630+01	3.8504-01	1.8921+00
-1.2	1.8419+00	1.4558+01	1.6400+01	5.0096+01	5.7334-01	1.8418+00
-1.0	1.7803+00	1.3737+01	1.5517+01	4.8440+01	7.5856-01	1.7801+00
-.8	1.7090+00	1.2791+01	1.4500+01	4.6691+01	9.4084-01	1.7087+00
-.6	1.6317+00	1.1766+01	1.3397+01	4.4896+01	1.1207+00	1.6311+00
-.4	1.5523+00	1.0714+01	1.2266+01	4.3111+01	1.2991+00	1.5514+00
-.2	1.4749+00	9.6886+00	1.1164+01	4.1388+01	1.4769+00	1.4737+00
.0	1.4028+00	8.7295+00	1.0132+01	3.9767+01	1.6551+00	1.4009+00
.2	1.3379+00	7.8627+00	9.2006+00	3.8269+01	1.8345+00	1.3350+00
.4	1.2815+00	7.1005+00	8.3819+00	3.6904+01	2.0158+00	1.2771+00
.6	1.2338+00	6.4443+00	7.6781+00	3.5669+01	2.1993+00	1.2272+00
.8	1.1950+00	5.8889+00	7.0839+00	3.4555+01	2.3855+00	1.1850+00
1.0	1.1650+00	5.4247+00	6.5898+00	3.3548+01	2.5744+00	1.1496+00
1.2	1.1441+00	5.0407+00	6.1848+00	3.2632+01	2.7665+00	1.1203+00
1.4	1.1329+00	4.7254+00	5.8584+00	3.1793+01	2.9623+00	1.0962+00
1.6	1.1334+00	4.4683+00	5.6017+00	3.1015+01	3.1625+00	1.0764+00
1.8	1.1490+00	4.2599+00	5.4089+00	3.0281+01	3.3684+00	1.0602+00
2.0	1.1857+00	4.0924+00	5.2781+00	2.9577+01	3.5821+00	1.0469+00
2.2	1.2534+00	3.9601+00	5.2135+00	2.8885+01	3.8062+00	1.0359+00

T= 8900

LOG D	N2	N2+	N+	N++	N	E
-7.0	6.8900-10	3.0900-09	4.7600-01	4.3300-09	4.7200-02	4.7600-01
-6.8	2.3400-09	6.9200-09	4.6500-01	2.7900-09	6.9700-02	4.6500-01
-6.6	7.4700-09	1.4800-08	4.5000-01	1.8100-09	1.0000-01	4.5000-01
-6.4	2.2300-08	3.0300-08	4.3000-01	1.1900-09	1.4000-01	4.3000-01
-6.2	6.1700-08	5.8600-08	4.0500-01	7.8100-10	1.8900-01	4.0500-01
-6.0	1.5900-07	1.0700-07	3.7700-01	5.1700-10	2.4700-01	3.7700-01
-5.8	3.8000-07	1.8600-07	3.4400-01	3.4300-10	3.1100-01	3.4400-01
-5.6	8.5200-07	3.0900-07	3.1000-01	2.2800-10	3.8000-01	3.1000-01
-5.4	1.8000-06	4.8900-07	2.7500-01	1.5100-10	4.5000-01	2.7500-01
-5.2	3.6400-06	7.4600-07	2.4000-01	1.0000-10	5.2000-01	2.4000-01
-5.0	7.0200-06	1.1000-06	2.0700-01	6.6100-11	5.8600-01	2.0700-01
-4.8	1.3100-05	1.5800-06	1.7600-01	4.3400-11	6.4700-01	1.7600-01
-4.6	2.3700-05	2.2200-06	1.4800-01	2.8300-11	7.0300-01	1.4800-01
-4.4	4.1700-05	3.0500-06	1.2400-01	1.8400-11	7.5200-01	1.2400-01
-4.2	7.2100-05	4.1200-06	1.0200-01	1.1900-11	7.9500-01	1.0200-01
-4.0	1.2300-04	5.4900-06	8.4000-02	7.7000-12	8.3200-01	8.4000-02
-3.8	2.0500-04	7.2400-06	6.8600-02	4.9500-12	8.6300-01	6.8600-02
-3.6	3.4000-04	9.4700-06	5.5700-02	3.1800-12	8.8800-01	5.5700-02
-3.4	5.5900-04	1.2300-05	4.5100-02	2.0300-12	9.0900-01	4.5100-02
-3.2	9.1100-04	1.5800-05	3.6300-02	1.3000-12	9.2600-01	3.6300-02
-3.0	1.4700-03	2.0300-05	2.9200-02	8.2900-13	9.4000-01	2.9200-02
-2.8	2.3700-03	2.6000-05	2.3400-02	5.2900-13	9.5100-01	2.3500-02
-2.6	3.8000-03	3.3000-05	1.8600-02	3.3700-13	9.5900-01	1.8800-02
-2.4	6.0500-03	4.1800-05	1.5000-02	2.1500-13	9.6400-01	1.5000-02
-2.2	9.5800-03	5.2700-05	1.2000-02	1.3700-13	9.6600-01	1.2000-02
-2.0	1.5000-02	6.6000-05	9.5500-03	8.7400-14	9.6600-01	9.6200-03
-1.8	2.3400-02	8.2100-05	7.6100-03	5.5900-14	9.6100-01	7.6900-03
-1.6	3.5900-02	1.0100-04	6.0500-03	3.5800-14	9.5200-01	6.1500-03
-1.4	5.4000-02	1.2300-04	4.8000-03	2.3000-14	9.3600-01	4.9200-03
-1.2	7.9300-02	1.4600-04	3.8000-03	1.4800-14	9.1300-01	3.9400-03
-1.0	1.1300-01	1.7100-04	2.9900-03	9.5900-15	8.8000-01	3.1600-03
-.8	1.5700-01	1.9400-04	2.3400-03	6.2100-15	8.3800-01	2.5300-03
-.6	2.0900-01	2.1400-04	1.8200-03	4.0100-15	7.8700-01	2.0300-03
-.4	2.7000-01	2.3000-04	1.4000-03	2.5900-15	7.2700-01	1.6300-03
-.2	3.3600-01	2.4000-04	1.0600-03	1.6500-15	6.6100-01	1.3000-03
.0	4.0600-01	2.4300-04	7.9900-04	1.0500-15	5.9200-01	1.0400-03
.2	4.7600-01	2.3900-04	5.9100-04	6.5400-16	5.2200-01	8.3000-04
.4	5.4500-01	2.3000-04	4.3100-04	4.0200-16	4.5400-01	6.6100-04
.6	6.1000-01	2.1600-04	3.1000-04	2.4400-16	3.8900-01	5.2500-04
.8	6.7000-01	1.9800-04	2.1900-04	1.4500-16	3.2900-01	4.1800-04
1.0	7.2400-01	1.7900-04	1.5400-04	8.5000-17	2.7500-01	3.3300-04
1.2	7.7200-01	1.6000-04	1.0600-04	4.9000-17	2.2800-01	2.6600-04
1.4	8.1300-01	1.4100-04	7.2800-05	2.7800-17	1.8700-01	2.1400-04
1.6	8.4800-01	1.2400-04	4.9600-05	1.5500-17	1.5100-01	1.7300-04
1.8	8.7900-01	1.0900-04	3.3700-05	8.5200-18	1.2100-01	1.4300-04
2.0	9.0400-01	9.6900-05	2.2900-05	4.6000-18	9.5700-02	1.2000-04
2.2	9.2600-01	8.8400-05	1.5800-05	2.4400-18	7.4100-02	1.0400-04

T= 8900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.8193+00	5.3242+01	5.7062+01	1.2210+02	-4.9050+00	3.8199+00
-6.8	3.7386+00	5.1613+01	5.5352+01	1.1873+02	-4.7143+00	3.7393+00
-6.6	3.6342+00	4.9504+01	5.3138+01	1.1492+02	-4.5266+00	3.6350+00
-6.4	3.5071+00	4.6937+01	5.0444+01	1.1071+02	-4.3421+00	3.5080+00
-6.2	3.3622+00	4.4008+01	4.7370+01	1.0620+02	-4.1604+00	3.3631+00
-6.0	3.2068+00	4.0869+01	4.4075+01	1.0155+02	-3.9809+00	3.2077+00
-5.8	3.0495+00	3.7690+01	4.0739+01	9.6929+01	-3.8028+00	3.0505+00
-5.6	2.8978+00	3.4624+01	3.7522+01	9.2494+01	-3.6249+00	2.8988+00
-5.4	2.7574+00	3.1784+01	3.4542+01	8.8352+01	-3.4465+00	2.7583+00
-5.2	2.6314+00	2.9238+01	3.1870+01	8.4566+01	-3.2668+00	2.6323+00
-5.0	2.5214+00	2.7013+01	2.9535+01	8.1155+01	-3.0854+00	2.5222+00
-4.8	2.4272+00	2.5108+01	2.7536+01	7.8111+01	-2.9019+00	2.4280+00
-4.6	2.3478+00	2.3503+01	2.5851+01	7.5407+01	-2.7164+00	2.3485+00
-4.4	2.2817+00	2.2167+01	2.4448+01	7.3005+01	-2.5287+00	2.2824+00
-4.2	2.2272+00	2.1065+01	2.3292+01	7.0866+01	-2.3392+00	2.2278+00
-4.0	2.1826+00	2.0163+01	2.2346+01	6.8949+01	-2.1480+00	2.1832+00
-3.8	2.1463+00	1.9429+01	2.1576+01	6.7218+01	-1.9553+00	2.1468+00
-3.6	2.1168+00	1.8833+01	2.0950+01	6.5641+01	-1.7613+00	2.1172+00
-3.4	2.0927+00	1.8350+01	2.0443+01	6.4189+01	-1.5663+00	2.0931+00
-3.2	2.0731+00	1.7957+01	2.0030+01	6.2837+01	-1.3704+00	2.0734+00
-3.0	2.0567+00	1.7634+01	1.9691+01	6.1563+01	-1.1738+00	2.0570+00
-2.8	2.0427+00	1.7364+01	1.9407+01	6.0349+01	-9.7680-01	2.0430+00
-2.6	2.0301+00	1.7130+01	1.9160+01	5.9177+01	-7.7949-01	2.0304+00
-2.4	2.0178+00	1.6913+01	1.8931+01	5.8028+01	-5.8213-01	2.0180+00
-2.2	2.0046+00	1.6696+01	1.8701+01	5.6885+01	-3.8498-01	2.0048+00
-2.0	1.9889+00	1.6456+01	1.8445+01	5.5725+01	-1.8839-01	1.9891+00
-1.8	1.9688+00	1.6165+01	1.8134+01	5.4523+01	7.1934-03	1.9689+00
-1.6	1.9420+00	1.5794+01	1.7736+01	5.3251+01	2.0125-01	1.9421+00
-1.4	1.9063+00	1.5310+01	1.7216+01	5.1880+01	3.9318-01	1.9063+00
-1.2	1.8596+00	1.4688+01	1.6548+01	5.0391+01	5.8242-01	1.8596+00
-1.0	1.8015+00	1.3919+01	1.5721+01	4.8779+01	7.6863-01	1.8013+00
-.8	1.7330+00	1.3018+01	1.4751+01	4.7063+01	9.5180-01	1.7327+00
-.6	1.6572+00	1.2022+01	1.3679+01	4.5286+01	1.1324+00	1.6567+00
-.4	1.5780+00	1.0982+01	1.2560+01	4.3502+01	1.3111+00	1.5771+00
-.2	1.4996+00	9.9532+00	1.1453+01	4.1764+01	1.4890+00	1.4983+00
.0	1.4255+00	8.9787+00	1.0404+01	4.0116+01	1.6670+00	1.4236+00
.2	1.3583+00	8.0890+00	9.4473+00	3.8586+01	1.8460+00	1.3554+00
.4	1.2992+00	7.3002+00	8.5994+00	3.7185+01	2.0267+00	1.2948+00
.6	1.2490+00	6.6169+00	7.8659+00	3.5916+01	2.2096+00	1.2473+00
.8	1.2078+00	6.0355+00	7.2433+00	3.4769+01	2.3950+00	1.1977+00
1.0	1.1757+00	5.5477+00	6.7234+00	3.3733+01	2.5833+00	1.1601+00
1.2	1.1529+00	5.1429+00	6.2958+00	3.2792+01	2.7748+00	1.1290+00
1.4	1.1401+00	4.8097+00	5.9498+00	3.1931+01	2.9699+00	1.1032+00
1.6	1.1393+00	4.5373+00	5.6766+00	3.1134+01	3.1696+00	1.0820+00
1.8	1.1538+00	4.3161+00	5.4699+00	3.0386+01	3.3751+00	1.0647+00
2.0	1.1895+00	4.1379+00	5.3275+00	2.9669+01	3.5884+00	1.0504+00
2.2	1.2564+00	3.9967+00	5.2531+00	2.8966+01	3.8121+00	1.0386+00

T= 9000

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.0400-10	2.2900-09	4.8100-01	6.7000-09	3.8700-02	4.8100-01
-6.8	1.4000-09	5.2100-09	4.7100-01	4.3100-09	5.7800-02	4.7100-01
-6.6	4.6300-09	1.1400-08	4.5800-01	2.7900-09	8.4400-02	4.5800-01
-6.4	1.4300-08	2.3900-08	4.4000-01	1.8200-09	1.2000-01	4.4000-01
-6.2	4.1100-08	4.7500-08	4.1800-01	1.1900-09	1.6400-01	4.1800-01
-6.0	1.0900-07	8.9400-08	3.9100-01	7.8800-10	2.1800-01	3.9100-01
-5.8	2.7100-07	1.5900-07	3.6000-01	5.2200-10	2.7900-01	3.6000-01
-5.6	6.2700-07	2.7000-07	3.2700-01	3.4700-10	3.4600-01	3.2700-01
-5.4	1.3700-06	4.3600-07	2.9200-01	2.3100-10	4.1600-01	2.9200-01
-5.2	2.8200-06	6.7700-07	2.5700-01	1.5300-10	4.8600-01	2.5700-01
-5.0	5.5500-06	1.0200-06	2.2300-01	1.0100-10	5.5400-01	2.2300-01
-4.8	1.0500-05	1.4800-06	1.9100-01	6.6500-11	6.1800-01	1.9100-01
-4.6	1.9300-05	2.0900-06	1.6200-01	4.3500-11	6.7700-01	1.6200-01
-4.4	3.4400-05	2.9000-06	1.3500-01	2.8400-11	7.2900-01	1.3500-01
-4.2	6.0000-05	3.9600-06	1.1200-01	1.8400-11	7.7500-01	1.1200-01
-4.0	1.0300-04	5.3100-06	9.2600-02	1.1900-11	8.1500-01	9.2600-02
-3.8	1.7300-04	7.0400-06	7.5800-02	7.6700-12	8.4800-01	7.5800-02
-3.6	2.8900-04	9.2400-06	6.1700-02	4.9300-12	8.7600-01	6.1700-02
-3.4	4.7600-04	1.2000-05	5.0000-02	3.1600-12	8.9900-01	5.0000-02
-3.2	7.7800-04	1.5600-05	4.0400-02	2.0200-12	9.1800-01	4.0400-02
-3.0	1.2600-03	2.0000-05	3.2500-02	1.2900-12	9.3400-01	3.2500-02
-2.8	2.0400-03	2.5600-05	2.6100-02	8.2300-13	9.4600-01	2.6100-02
-2.6	3.2700-03	3.2600-05	2.0900-02	5.2500-13	9.5500-01	2.1000-02
-2.4	5.2200-03	4.1400-05	1.6700-02	3.3500-13	9.6100-01	1.6800-02
-2.2	8.2900-03	5.2300-05	1.3400-02	2.1400-13	9.6500-01	1.3400-02
-2.0	1.3100-02	6.5700-05	1.0700-02	1.3600-13	9.6500-01	1.0700-02
-1.8	2.0400-02	8.1900-05	8.5100-03	8.7200-14	9.6200-01	8.5900-03
-1.6	3.1400-02	1.0100-04	6.7700-03	5.5900-14	9.5500-01	6.8700-03
-1.4	4.7500-02	1.2400-04	5.3800-03	3.5900-14	9.4100-01	5.5000-03
-1.2	7.0400-02	1.4800-04	4.2600-03	2.3100-14	9.2100-01	4.4100-03
-1.0	1.0200-01	1.7400-04	3.3600-03	1.4900-14	8.9100-01	3.5300-03
-.8	1.4200-01	2.0000-04	2.6400-03	9.6700-15	8.5200-01	2.8400-03
-.6	1.9200-01	2.2300-04	2.0500-03	6.2600-15	8.0400-01	2.2800-03
-.4	2.5000-01	2.4100-04	1.5800-03	4.0400-15	7.4700-01	1.8300-03
-.2	3.1500-01	2.5400-04	1.2100-03	2.5900-15	6.8300-01	1.4600-03
.0	3.8400-01	2.5900-04	9.1100-04	1.6400-15	6.1400-01	1.1700-03
.2	4.5400-01	2.5700-04	6.7700-04	1.0300-15	5.4400-01	9.3400-04
.4	5.2400-01	2.4900-04	4.9600-04	6.3800-16	4.7500-01	7.4500-04
.6	5.9000-01	2.3500-04	3.5800-04	3.8900-16	4.0800-01	5.9300-04
.8	6.5200-01	2.1800-04	2.5500-04	2.3300-16	3.4700-01	4.7300-04
1.0	7.0800-01	1.9800-04	1.7900-04	1.3700-16	2.9100-01	3.7700-04
1.2	7.5800-01	1.7700-04	1.2400-04	7.9400-17	2.4200-01	3.0200-04
1.4	8.0100-01	1.5700-04	8.5500-05	4.5200-17	1.9800-01	2.4300-04
1.6	8.3800-01	1.3900-04	5.8400-05	2.5400-17	1.6100-01	1.9700-04
1.8	8.7000-01	1.2200-04	3.9800-05	1.4000-17	1.2900-01	1.6200-04
2.0	8.9700-01	1.0900-04	2.7100-05	7.6300-18	1.0200-01	1.3600-04
2.2	9.2000-01	1.0000-04	1.8700-05	4.0700-18	7.9400-02	1.1900-04

T= 9000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.8506+00	5.3347+01	5.7198+01	1.2280+02	-4.8966+00	3.8511+00
-6.8	3.7809+00	5.1955+01	5.5736+01	1.1965+02	-4.7046+00	3.7815+00
-6.6	3.6881+00	5.0102+01	5.3790+01	1.1608+02	-4.5154+00	3.6889+00
-6.4	3.5717+00	4.7776+01	5.1348+01	1.1208+02	-4.3293+00	3.5726+00
-6.2	3.4347+00	4.5038+01	4.8472+01	1.0773+02	-4.1463+00	3.4356+00
-6.0	3.2833+00	4.2013+01	4.5296+01	1.0316+02	-3.9658+00	3.2843+00
-5.8	3.1259+00	3.8867+01	4.1992+01	9.8533+01	-3.7872+00	3.1270+00
-5.6	2.9707+00	3.5763+01	3.8733+01	9.4026+01	-3.6093+00	2.9718+00
-5.4	2.8242+00	3.2833+01	3.5658+01	8.9762+01	-3.4313+00	2.8253+00
-5.2	2.6909+00	3.0167+01	3.2858+01	8.5827+01	-3.2523+00	2.6919+00
-5.0	2.5731+00	2.7810+01	3.0383+01	8.2258+01	-3.0717+00	2.5740+00
-4.8	2.4712+00	2.5773+01	2.8244+01	7.9060+01	-2.8892+00	2.4721+00
-4.6	2.3848+00	2.4043+01	2.6428+01	7.6213+01	-2.7047+00	2.3856+00
-4.4	2.3124+00	2.2596+01	2.4908+01	7.3684+01	-2.5181+00	2.3132+00
-4.2	2.2525+00	2.1397+01	2.3649+01	7.1435+01	-2.3295+00	2.2532+00
-4.0	2.2033+00	2.0412+01	2.2615+01	6.9424+01	-2.1391+00	2.2039+00
-3.8	2.1631+00	1.9609+01	2.1772+01	6.7616+01	-1.9471+00	2.1637+00
-3.6	2.1304+00	1.8956+01	2.1086+01	6.5974+01	-1.7537+00	2.1309+00
-3.4	2.1038+00	1.8426+01	2.0529+01	6.4470+01	-1.5592+00	2.1042+00
-3.2	2.0821+00	1.7995+01	2.0077+01	6.3076+01	-1.3637+00	2.0825+00
-3.0	2.0641+00	1.7643+01	1.9707+01	6.1769+01	-1.1674+00	2.0645+00
-2.8	2.0490+00	1.7351+01	1.9400+01	6.0530+01	-9.7062-01	2.0493+00
-2.6	2.0356+00	1.7101+01	1.9137+01	5.9340+01	-7.7346-01	2.0359+00
-2.4	2.0230+00	1.6877+01	1.8900+01	5.8180+01	-5.7615-01	2.0233+00
-2.2	2.0100+00	1.6659+01	1.8669+01	5.7034+01	-3.7896-01	2.0102+00
-2.0	1.9951+00	1.6426+01	1.8422+01	5.5879+01	-1.8220-01	1.9953+00
-1.8	1.9764+00	1.6154+01	1.8131+01	5.4692+01	1.3718-02	1.9766+00
-1.6	1.9519+00	1.5812+01	1.7764+01	5.3446+01	2.0829-01	1.9520+00
-1.4	1.9190+00	1.5369+01	1.7288+01	5.2111+01	4.0093-01	1.9191+00
-1.2	1.8759+00	1.4796+01	1.6672+01	5.0664+01	5.9105-01	1.8758+00
-1.0	1.8213+00	1.4079+01	1.5900+01	4.9095+01	7.7821-01	1.8211+00
-.8	1.7558+00	1.3224+01	1.4980+01	4.7416+01	9.6230-01	1.7554+00
-.6	1.6818+00	1.2261+01	1.3943+01	4.5661+01	1.1436+00	1.6812+00
-.4	1.6032+00	1.1239+01	1.2842+01	4.3882+01	1.3228+00	1.6023+00
-.2	1.5241+00	1.0211+01	1.1735+01	4.2135+01	1.5009+00	1.5228+00
.0	1.4484+00	9.2248+00	1.0673+01	4.0464+01	1.6787+00	1.4465+00
.2	1.3789+00	8.3148+00	9.6938+00	3.8903+01	1.8574+00	1.3760+00
.4	1.3174+00	7.5012+00	8.8186+00	3.7469+01	2.0376+00	1.3129+00
.6	1.2646+00	6.7916+00	8.0562+00	3.6165+01	2.2198+00	1.2579+00
.8	1.2210+00	6.1847+00	7.4057+00	3.4986+01	2.4046+00	1.2108+00
1.0	1.1867+00	5.6734+00	6.8601+00	3.3921+01	2.5922+00	1.1711+00
1.2	1.1620+00	5.2476+00	6.4096+00	3.2955+01	2.7830+00	1.1379+00
1.4	1.1476+00	4.8962+00	6.0438+00	3.2072+01	2.9776+00	1.1105+00
1.6	1.1454+00	4.6083+00	5.7537+00	3.1257+01	3.1768+00	1.0879+00
1.8	1.1587+00	4.3740+00	5.5327+00	3.0493+01	3.3818+00	1.0694+00
2.0	1.1935+00	4.1848+00	5.3783+00	2.9763+01	3.5947+00	1.0541+00
2.2	1.2595+00	4.0343+00	5.2938+00	2.9049+01	3.8180+00	1.0415+00

T= 9100

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.3700-10	1.6900-09	4.8400-01	1.0300-08	3.1700-02	4.8400-01
-6.8	8.4300-10	3.9100-09	4.7600-01	6.5900-09	4.7800-02	4.7600-01
-6.6	2.8500-09	8.7500-09	4.6500-01	4.2500-09	7.0600-02	4.6500-01
-6.4	9.1000-09	1.8700-08	4.4900-01	2.7600-09	1.0200-01	4.4900-01
-6.2	2.7100-08	3.8200-08	4.2900-01	1.8100-09	1.4200-01	4.2900-01
-6.0	7.4800-08	7.3700-08	4.0400-01	1.1900-09	1.9100-01	4.0400-01
-5.8	1.9200-07	1.3500-07	3.7500-01	7.8800-10	2.4900-01	3.7500-01
-5.6	4.5800-07	2.3400-07	3.4300-01	5.2300-10	3.1400-01	3.4300-01
-5.4	1.0300-06	3.8600-07	3.0900-01	3.4800-10	3.8200-01	3.0900-01
-5.2	2.1700-06	6.1100-07	2.7400-01	2.3100-10	4.5300-01	2.7400-01
-5.0	4.3600-06	9.3100-07	2.3900-01	1.5300-10	5.2200-01	2.3900-01
-4.8	8.4100-06	1.3700-06	2.0600-01	1.0100-10	5.8800-01	2.0600-01
-4.6	1.5600-05	1.9700-06	1.7500-01	6.6200-11	6.4900-01	1.7500-01
-4.4	2.8300-05	2.7600-06	1.4800-01	4.3200-11	7.0500-01	1.4800-01
-4.2	4.9800-05	3.7900-06	1.2300-01	2.8100-11	7.5400-01	1.2300-01
-4.0	8.6000-05	5.1200-06	1.0200-01	1.8200-11	7.9600-01	1.0200-01
-3.8	1.4600-04	6.8300-06	8.3500-02	1.1800-11	8.3300-01	8.3500-02
-3.6	2.4500-04	9.0100-06	6.8200-02	7.5600-12	8.6300-01	6.8200-02
-3.4	4.0500-04	1.1800-05	5.5400-02	4.8500-12	8.8900-01	5.5400-02
-3.2	6.6600-04	1.5300-05	4.4800-02	3.1100-12	9.1000-01	4.4800-02
-3.0	1.0800-03	1.9700-05	3.6100-02	1.9900-12	9.2700-01	3.6100-02
-2.8	1.7500-03	2.5300-05	2.9000-02	1.2700-12	9.4000-01	2.9000-02
-2.6	2.8200-03	3.2200-05	2.3300-02	8.1000-13	9.5100-01	2.3300-02
-2.4	4.5200-03	4.1000-05	1.8600-02	5.1700-13	9.5800-01	1.8700-02
-2.2	7.1800-03	5.1900-05	1.4900-02	3.3000-13	9.6300-01	1.5000-02
-2.0	1.1300-02	6.5300-05	1.1900-02	2.1100-13	9.6500-01	1.2000-02
-1.8	1.7800-02	8.1600-05	9.5000-03	1.3500-13	9.6300-01	9.5800-03
-1.6	2.7500-02	1.0100-04	7.5600-03	8.6300-14	9.5700-01	7.6600-03
-1.4	4.1900-02	1.2400-04	6.0100-03	5.5400-14	9.4600-01	6.1300-03
-1.2	6.2500-02	1.5000-04	4.7600-03	3.5700-14	9.2800-01	4.9100-03
-1.0	9.1000-02	1.7700-04	3.7600-03	2.3100-14	9.0100-01	3.9400-03
-.8	1.2800-01	2.0500-04	2.9600-03	1.4900-14	8.6500-01	3.1600-03
-.6	1.7500-01	2.3000-04	2.3100-03	9.6700-15	8.2000-01	2.5400-03
-.4	2.3100-01	2.5200-04	1.7900-03	6.2500-15	7.6500-01	2.0400-03
-.2	2.9400-01	2.6700-04	1.3700-03	4.0100-15	7.0300-01	1.6400-03
.0	3.6200-01	2.7500-04	1.0400-03	2.5600-15	6.3500-01	1.3100-03
.2	4.3200-01	2.7600-04	7.7300-04	1.6100-15	5.6500-01	1.0500-03
.4	5.0300-01	2.6900-04	5.6900-04	1.0000-15	4.9600-01	8.3800-04
.6	5.7000-01	2.5600-04	4.1200-04	6.1300-16	4.2800-01	6.6800-04
.8	6.3400-01	2.3800-04	2.9500-04	3.6900-16	3.6500-01	5.3300-04
1.0	6.9200-01	2.1800-04	2.0800-04	2.1800-16	3.0700-01	4.2600-04
1.2	7.4300-01	1.9600-04	1.4500-04	1.2700-16	2.5600-01	3.4100-04
1.4	7.8900-01	1.7500-04	1.0000-04	7.3000-17	2.1100-01	2.7500-04
1.6	8.2800-01	1.5500-04	6.8500-05	4.1200-17	1.7100-01	2.2300-04
1.8	8.6200-01	1.3700-04	4.6800-05	2.2900-17	1.3800-01	1.8400-04
2.0	8.9000-01	1.2300-04	3.2000-05	1.2500-17	1.0900-01	1.5500-04
2.2	9.1500-01	1.1300-04	2.2100-05	6.7300-18	8.4800-02	1.3500-04



T= 9100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.8766+00	5.3347+01	5.7223+01	1.2339+02	-4.8889+00	3.8771+00
-6.8	3.8168+00	5.2166+01	5.5983+01	1.2044+02	-4.6957+00	3.8175+00
-6.6	3.7353+00	5.0556+01	5.4291+01	1.1709+02	-4.5050+00	3.7361+00
-6.4	3.6301+00	4.8476+01	5.2106+01	1.1331+02	-4.3174+00	3.6310+00
-6.2	3.5023+00	4.5950+01	4.9452+01	1.0914+02	-4.1330+00	3.5033+00
-6.0	3.3568+00	4.3073+01	4.6430+01	1.0469+02	-3.9514+00	3.3579+00
-5.8	3.2013+00	3.9997+01	4.3198+01	1.0010+02	-3.7720+00	3.2024+00
-5.6	3.0441+00	3.6888+01	3.9932+01	9.5552+01	-3.5939+00	3.0452+00
-5.4	2.8927+00	3.3893+01	3.6786+01	9.1191+01	-3.4161+00	2.8939+00
-5.2	2.7527+00	3.1123+01	3.3876+01	8.7122+01	-3.2376+00	2.7539+00
-5.0	2.6273+00	2.8642+01	3.1269+01	8.3402+01	-3.0578+00	2.6284+00
-4.8	2.5179+00	2.6476+01	2.8993+01	8.0051+01	-2.8763+00	2.5189+00
-4.6	2.4242+00	2.4622+01	2.7046+01	7.7060+01	-2.6928+00	2.4252+00
-4.4	2.3453+00	2.3060+01	2.5405+01	7.4401+01	-2.5072+00	2.3462+00
-4.2	2.2797+00	2.1760+01	2.4040+01	7.2036+01	-2.3195+00	2.2805+00
-4.0	2.2255+00	2.0689+01	2.2914+01	6.9928+01	-2.1299+00	2.2263+00
-3.8	2.1812+00	1.9812+01	2.1993+01	6.8037+01	-1.9387+00	2.1819+00
-3.6	2.1451+00	1.9098+01	2.1243+01	6.6327+01	-1.7459+00	2.1457+00
-3.4	2.1157+00	1.8518+01	2.0634+01	6.4767+01	-1.5519+00	2.1163+00
-3.2	2.0918+00	1.8047+01	2.0139+01	6.3327+01	-1.3568+00	2.0923+00
-3.0	2.0721+00	1.7664+01	1.9736+01	6.1985+01	-1.1609+00	2.0726+00
-2.8	2.0557+00	1.7347+01	1.9403+01	6.0718+01	-9.6440-01	2.0561+00
-2.6	2.0414+00	1.7080+01	1.9121+01	5.9507+01	-7.6742-01	2.0418+00
-2.4	2.0284+00	1.6845+01	1.8873+01	5.8335+01	-5.7021-01	2.0287+00
-2.2	2.0153+00	1.6623+01	1.8639+01	5.7182+01	-3.7302-01	2.0156+00
-2.0	2.0009+00	1.6396+01	1.8397+01	5.6030+01	-1.7613-01	2.0011+00
-1.8	1.9834+00	1.6138+01	1.8121+01	5.4854+01	2.0056-02	1.9836+00
-1.6	1.9608+00	1.5821+01	1.7782+01	5.3629+01	2.1507-01	1.9609+00
-1.4	1.9307+00	1.5414+01	1.7344+01	5.2326+01	4.0835-01	1.9307+00
-1.2	1.8908+00	1.4887+01	1.6778+01	5.0918+01	5.9928-01	1.8908+00
-1.0	1.8397+00	1.4220+01	1.6059+01	4.9392+01	7.8738-01	1.8395+00
-.8	1.7773+00	1.3412+01	1.5189+01	4.7750+01	9.7240-01	1.7770+00
-.6	1.7055+00	1.2486+01	1.4191+01	4.6022+01	1.1545+00	1.7050+00
-.4	1.6279+00	1.1485+01	1.3113+01	4.4254+01	1.3343+00	1.6270+00
-.2	1.5485+00	1.0463+01	1.2011+01	4.2501+01	1.5126+00	1.5472+00
.0	1.4715+00	9.4689+00	1.0940+01	4.0811+01	1.6904+00	1.4695+00
.2	1.4000+00	8.5414+00	9.9414+00	3.9223+01	1.8688+00	1.3970+00
.4	1.3360+00	7.7046+00	9.0406+00	3.7756+01	2.0485+00	1.3315+00
.6	1.2808+00	6.9696+00	8.2504+00	3.6419+01	2.2301+00	1.2739+00
.8	1.2348+00	6.3375+00	7.5722+00	3.5208+01	2.4142+00	1.2244+00
1.0	1.1982+00	5.8026+00	7.0008+00	3.4113+01	2.6012+00	1.1824+00
1.2	1.1715+00	5.3556+00	6.5271+00	3.3121+01	2.7914+00	1.1473+00
1.4	1.1555+00	4.9856+00	6.1411+00	3.2216+01	2.9854+00	1.1181+00
1.6	1.1518+00	4.6818+00	5.8336+00	3.1381+01	3.1840+00	1.0941+00
1.8	1.1639+00	4.4339+00	5.5979+00	3.0601+01	3.3886+00	1.0743+00
2.0	1.1977+00	4.2334+00	5.4311+00	2.9858+01	3.6010+00	1.0579+00
2.2	1.2628+00	4.0734+00	5.3362+00	2.9133+01	3.8240+00	1.0445+00

T= 9200

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.4000-10	1.2500-09	4.8700-01	1.5600-08	2.6000-02	4.8700-01
-6.8	5.0600-10	2.9300-09	4.8000-01	1.0000-08	3.9600-02	4.8000-01
-6.6	1.7500-09	6.6700-09	4.7000-01	6.4300-09	5.9000-02	4.7000-01
-6.4	5.7600-09	1.4600-08	4.5700-01	4.1700-09	8.6100-02	4.5700-01
-6.2	1.7700-08	3.0500-08	4.3900-01	2.7200-09	1.2200-01	4.3900-01
-6.0	5.0700-08	6.0300-08	4.1600-01	1.7800-09	1.6700-01	4.1700-01
-5.8	1.3500-07	1.1300-07	3.8900-01	1.1800-09	2.2100-01	3.8900-01
-5.6	3.3200-07	2.0100-07	3.5900-01	7.8200-10	2.8300-01	3.5900-01
-5.4	7.6500-07	3.4000-07	3.2500-01	5.2000-10	3.5000-01	3.2500-01
-5.2	1.6600-06	5.4800-07	2.9000-01	3.4600-10	4.2000-01	2.9000-01
-5.0	3.4100-06	8.4900-07	2.5500-01	2.2900-10	4.9000-01	2.5500-01
-4.8	6.7100-06	1.2700-06	2.2100-01	1.5100-10	5.5800-01	2.2100-01
-4.6	1.2700-05	1.8500-06	1.8900-01	9.9600-11	6.2100-01	1.8900-01
-4.4	2.3200-05	2.6100-06	1.6000-01	6.5200-11	6.8000-01	1.6000-01
-4.2	4.1400-05	3.6200-06	1.3400-01	4.2500-11	7.3200-01	1.3400-01
-4.0	7.2100-05	4.9300-06	1.1100-01	2.7600-11	7.7700-01	1.1100-01
-3.8	1.2300-04	6.6100-06	9.1700-02	1.7800-11	8.1600-01	9.1700-02
-3.6	2.0800-04	8.7600-06	7.5000-02	1.1500-11	8.5000-01	7.5000-02
-3.4	3.4600-04	1.1500-05	6.1100-02	7.3900-12	8.7700-01	6.1100-02
-3.2	5.7100-04	1.5000-05	4.9500-02	4.7400-12	9.0000-01	4.9500-02
-3.0	9.3300-04	1.9300-05	4.0000-02	3.0300-12	9.1900-01	4.0000-02
-2.8	1.5100-03	2.4900-05	3.2200-02	1.9400-12	9.3400-01	3.2200-02
-2.6	2.4400-03	3.1800-05	2.5800-02	1.2400-12	9.4600-01	2.5900-02
-2.4	3.9100-03	4.0500-05	2.0700-02	7.9000-13	9.5500-01	2.0800-02
-2.2	6.2400-03	5.1400-05	1.6600-02	5.0500-13	9.6100-01	1.6600-02
-2.0	9.8800-03	6.4800-05	1.3200-02	3.2200-13	9.6400-01	1.3300-02
-1.8	1.5500-02	8.1300-05	1.0600-02	2.0600-13	9.6300-01	1.0600-02
-1.6	2.4100-02	1.0100-04	8.4200-03	1.3200-13	9.5900-01	8.5200-03
-1.4	3.7000-02	1.2400-04	6.7000-03	8.4800-14	9.4900-01	6.8200-03
-1.2	5.5500-02	1.5100-04	5.3200-03	5.4600-14	9.3400-01	5.4700-03
-1.0	8.1500-02	1.8000-04	4.2100-03	3.5300-14	9.1000-01	4.3900-03
-.8	1.1600-01	2.0900-04	3.3100-03	2.2800-14	8.7700-01	3.5200-03
-.6	1.6000-01	2.3800-04	2.5900-03	1.4800-14	8.3400-01	2.8300-03
-.4	2.1300-01	2.6200-04	2.0100-03	9.5700-15	7.8200-01	2.2700-03
-.2	2.7400-01	2.8000-04	1.5500-03	6.1700-15	7.2200-01	1.8300-03
.0	3.4100-01	2.9100-04	1.1700-03	3.9400-15	6.5600-01	1.4700-03
.2	4.1100-01	2.9400-04	8.8000-04	2.4900-15	5.8600-01	1.1700-03
.4	4.8200-01	2.8900-04	6.5000-04	1.5600-15	5.1600-01	9.3900-04
.6	5.5000-01	2.7700-04	4.7300-04	9.5700-16	4.4800-01	7.5000-04
.8	6.1500-01	2.6000-04	3.3900-04	5.7900-16	3.8300-01	5.9900-04
1.0	6.7500-01	2.3900-04	2.4000-04	3.4500-16	3.2400-01	4.7900-04
1.2	7.2900-01	2.1600-04	1.6800-04	2.0200-16	2.7000-01	3.8500-04
1.4	7.7600-01	1.9400-04	1.1600-04	1.1700-16	2.2300-01	3.1000-04
1.6	8.1700-01	1.7200-04	8.0100-05	6.6200-17	1.8200-01	2.5200-04
1.8	8.5300-01	1.5300-04	5.4800-05	3.7000-17	1.4700-01	2.0800-04
2.0	8.8300-01	1.3800-04	3.7600-05	2.0400-17	1.1600-01	1.7500-04
2.2	9.0900-01	1.2700-04	2.6000-05	1.1000-17	9.0500-02	1.5300-04

T= 9200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.8981+00	5.3259+01	5.7157+01	1.2389+02	-4.8818+00	3.8986+00
-6.8	3.8472+00	5.2264+01	5.6111+01	1.2111+02	-4.6875+00	3.8478+00
-6.6	3.7762+00	5.0877+01	5.4653+01	1.1796+02	-4.4956+00	3.7770+00
-6.4	3.6821+00	4.9038+01	5.2720+01	1.1441+02	-4.3065+00	3.6831+00
-6.2	3.5645+00	4.6737+01	5.0301+01	1.1044+02	-4.1206+00	3.5655+00
-6.0	3.4265+00	4.4037+01	4.7463+01	1.0613+02	-3.9378+00	3.4276+00
-5.8	3.2746+00	4.1065+01	4.4339+01	1.0161+02	-3.7575+00	3.2758+00
-5.6	3.1172+00	3.7984+01	4.1101+01	9.7057+01	-3.5789+00	3.1184+00
-5.4	2.9623+00	3.4952+01	3.7914+01	9.2626+01	-3.4010+00	2.9635+00
-5.2	2.8165+00	3.2097+01	3.4913+01	8.8441+01	-3.2229+00	2.8177+00
-5.0	2.6840+00	2.9503+01	3.2187+01	8.4581+01	-3.0438+00	2.6852+00
-4.8	2.5670+00	2.7213+01	2.9780+01	8.1082+01	-2.8632+00	2.5682+00
-4.6	2.4661+00	2.5235+01	2.7701+01	7.7946+01	-2.6806+00	2.4671+00
-4.4	2.3804+00	2.3558+01	2.5938+01	7.5153+01	-2.4960+00	2.3814+00
-4.2	2.3088+00	2.2155+01	2.4464+01	7.2671+01	-2.3092+00	2.3097+00
-4.0	2.2495+00	2.0993+01	2.3243+01	7.0460+01	-2.1205+00	2.2503+00
-3.8	2.2008+00	2.0040+01	2.2240+01	6.8482+01	-1.9300+00	2.2016+00
-3.6	2.1611+00	1.9261+01	2.1422+01	6.6700+01	-1.7379+00	2.1617+00
-3.4	2.1287+00	1.8628+01	2.0757+01	6.5080+01	-1.5445+00	2.1293+00
-3.2	2.1023+00	1.8115+01	2.0217+01	6.3592+01	-1.3499+00	2.1029+00
-3.0	2.0807+00	1.7696+01	1.9777+01	6.2210+01	-1.1544+00	2.0812+00
-2.8	2.0628+00	1.7353+01	1.9416+01	6.0913+01	-9.5815-01	2.0633+00
-2.6	2.0475+00	1.7066+01	1.9113+01	5.9680+01	-7.6139-01	2.0479+00
-2.4	2.0338+00	1.6818+01	1.8851+01	5.8492+01	-5.6430-01	2.0342+00
-2.2	2.0206+00	1.6590+01	1.8611+01	5.7331+01	-3.6714-01	2.0209+00
-2.0	2.0065+00	1.6364+01	1.8371+01	5.6177+01	-1.7018-01	2.0067+00
-1.8	1.9899+00	1.6116+01	1.8106+01	5.5009+01	2.6225-02	1.9901+00
-1.6	1.9689+00	1.5820+01	1.7789+01	5.3801+01	2.2162-01	1.9691+00
-1.4	1.9412+00	1.5445+01	1.7386+01	5.2525+01	4.1545-01	1.9413+00
-1.2	1.9043+00	1.4960+01	1.6864+01	5.1154+01	6.0713-01	1.9043+00
-1.0	1.8566+00	1.4340+01	1.6197+01	4.9668+01	7.9611-01	1.8565+00
-.8	1.7975+00	1.3579+01	1.5377+01	4.8066+01	9.8204-01	1.7972+00
-.6	1.7282+00	1.2693+01	1.4421+01	4.6367+01	1.1650+00	1.7277+00
-.4	1.6519+00	1.1718+01	1.3370+01	4.4614+01	1.3454+00	1.6510+00
-.2	1.5726+00	1.0706+01	1.2279+01	4.2859+01	1.5240+00	1.5713+00
.0	1.4946+00	9.7081+00	1.1203+01	4.1155+01	1.7019+00	1.4925+00
.2	1.4212+00	8.7661+00	1.0187+01	3.9542+01	1.8800+00	1.4181+00
.4	1.3550+00	7.9083+00	9.2632+00	3.8045+01	2.0593+00	1.3504+00
.6	1.2973+00	7.1492+00	8.4465+00	3.6676+01	2.2404+00	1.2903+00
.8	1.2488+00	6.4925+00	7.7413+00	3.5433+01	2.4239+00	1.2384+00
1.0	1.2101+00	5.9342+00	7.1443+00	3.4309+01	2.6102+00	1.1941+00
1.2	1.1814+00	5.4659+00	6.6473+00	3.3291+01	2.7998+00	1.1570+00
1.4	1.1636+00	5.0772+00	6.2409+00	3.2363+01	2.9932+00	1.1261+00
1.6	1.1585+00	4.7572+00	5.9158+00	3.1508+01	3.1913+00	1.1005+00
1.8	1.1694+00	4.4956+00	5.6650+00	3.0711+01	3.3953+00	1.0794+00
2.0	1.2021+00	4.2835+00	5.4855+00	2.9954+01	3.6073+00	1.0620+00
2.2	1.2663+00	4.1137+00	5.3800+00	2.9218+01	3.8299+00	1.0476+00

T= 9300

LOG D	N2	N2+	N+	N++	N	E
-7.0	8.2900-11	9.2600-10	4.8900-01	2.3600-08	2.1400-02	4.8900-01
-6.8	3.0400-10	2.2000-09	4.8400-01	1.5100-08	3.2700-02	4.8400-01
-6.6	1.0800-09	5.0800-09	4.7500-01	9.6700-09	4.9300-02	4.7500-01
-6.4	3.6300-09	1.1300-08	4.6400-01	6.2400-09	7.2700-02	4.6400-01
-6.2	1.1500-08	2.4200-08	4.4800-01	4.0600-09	1.0400-01	4.4800-01
-6.0	3.4100-08	4.9000-08	4.2700-01	2.6600-09	1.4500-01	4.2700-01
-5.8	9.3700-08	9.4300-08	4.0200-01	1.7500-09	1.9500-01	4.0200-01
-5.6	2.3900-07	1.7200-07	3.7300-01	1.1600-09	2.5400-01	3.7300-01
-5.4	5.6800-07	2.9700-07	3.4100-01	7.7000-10	3.1900-01	3.4100-01
-5.2	1.2700-06	4.8800-07	3.0600-01	5.1200-10	3.8700-01	3.0600-01
-5.0	2.6600-06	7.7000-07	2.7100-01	3.4000-10	4.5800-01	2.7100-01
-4.8	5.3400-06	1.1700-06	2.3700-01	2.2500-10	5.2700-01	2.3700-01
-4.6	1.0300-05	1.7200-06	2.0400-01	1.4800-10	5.9300-01	2.0400-01
-4.4	1.9100-05	2.4700-06	1.7300-01	9.7400-11	6.5400-01	1.7300-01
-4.2	3.4400-05	3.4500-06	1.4600-01	6.3700-11	7.0900-01	1.4600-01
-4.0	6.0500-05	4.7300-06	1.2100-01	4.1400-11	7.5700-01	1.2100-01
-3.8	1.0400-04	6.3900-06	1.0000-01	2.6800-11	7.9900-01	1.0000-01
-3.6	1.7700-04	8.5100-06	8.2300-02	1.7300-11	8.3500-01	8.2300-02
-3.4	2.9600-04	1.1200-05	6.7200-02	1.1100-11	8.6500-01	6.7200-02
-3.2	4.9000-04	1.4700-05	5.4500-02	7.1600-12	8.9000-01	5.4600-02
-3.0	8.0400-04	1.9000-05	4.4100-02	4.5800-12	9.1100-01	4.4100-02
-2.8	1.3100-03	2.4500-05	3.5600-02	2.9300-12	9.2800-01	3.5600-02
-2.6	2.1200-03	3.1400-05	2.8600-02	1.8700-12	9.4100-01	2.8600-02
-2.4	3.4000-03	4.0100-05	2.2900-02	1.2000-12	9.5100-01	2.3000-02
-2.2	5.4300-03	5.0900-05	1.8400-02	7.6500-13	9.5800-01	1.8400-02
-2.0	8.6300-03	6.4300-05	1.4700-02	4.8900-13	9.6200-01	1.4800-02
-1.8	1.3600-02	8.0900-05	1.1700-02	3.1300-13	9.6300-01	1.1800-02
-1.6	2.1200-02	1.0100-04	9.3600-03	2.0000-13	9.6000-01	9.4600-03
-1.4	3.2600-02	1.2500-04	7.4500-03	1.2900-13	9.5200-01	7.5700-03
-1.2	4.9400-02	1.5200-04	5.9200-03	8.2800-14	9.3900-01	6.0700-03
-1.0	7.3000-02	1.8200-04	4.6900-03	5.3500-14	9.1700-01	4.8700-03
-.8	1.0500-01	2.1400-04	3.7000-03	3.4600-14	8.8700-01	3.9100-03
-.6	1.4600-01	2.4400-04	2.9000-03	2.2400-14	8.4700-01	3.1400-03
-.4	1.9700-01	2.7200-04	2.2600-03	1.4500-14	7.9800-01	2.5300-03
-.2	2.5600-01	2.9300-04	1.7400-03	9.3900-15	7.4000-01	2.0300-03
.0	3.2100-01	3.0700-04	1.3300-03	6.0200-15	6.7600-01	1.6300-03
.2	3.9000-01	3.1300-04	9.9700-04	3.8200-15	6.0700-01	1.3100-03
.4	4.6100-01	3.1000-04	7.3900-04	2.4000-15	5.3700-01	1.0500-03
.6	5.3100-01	3.0000-04	5.4100-04	1.4800-15	4.6800-01	8.4000-04
.8	5.9700-01	2.8300-04	3.9000-04	9.0100-16	4.0200-01	6.7200-04
1.0	6.5800-01	2.6200-04	2.7700-04	5.3900-16	3.4100-01	5.3800-04
1.2	7.1400-01	2.3800-04	1.9400-04	3.1800-16	2.8500-01	4.3300-04
1.4	7.6300-01	2.1400-04	1.3500-04	1.8400-16	2.3600-01	3.4900-04
1.6	8.0700-01	1.9100-04	9.3200-05	1.0500-16	1.9300-01	2.8400-04
1.8	8.4400-01	1.7100-04	6.4000-05	5.9200-17	1.5600-01	2.3500-04
2.0	8.7600-01	1.5400-04	4.4000-05	3.2800-17	1.2400-01	1.9800-04
2.2	9.0300-01	1.4300-04	3.0400-05	1.7900-17	9.6400-02	1.7300-04

T= 9300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9158+00	5.3099+01	5.7015+01	1.2430+02	-4.8751+00	3.9163+00
-6.8	3.8726+00	5.2265+01	5.6138+01	1.2167+02	-4.6799+00	3.8733+00
-6.6	3.8113+00	5.1080+01	5.4891+01	1.1872+02	-4.4868+00	3.8121+00
-6.4	3.7281+00	4.9469+01	5.3197+01	1.1537+02	-4.2964+00	3.7290+00
-6.2	3.6210+00	4.7398+01	5.1019+01	1.1161+02	-4.1091+00	3.6221+00
-6.0	3.4917+00	4.4894+01	4.8386+01	1.0746+02	-3.9249+00	3.4929+00
-5.8	3.3452+00	4.2058+01	4.5403+01	1.0305+02	-3.7435+00	3.3465+00
-5.6	3.1893+00	3.9038+01	4.2227+01	9.8528+01	-3.5642+00	3.1906+00
-5.4	3.0323+00	3.5998+01	3.9030+01	9.4055+01	-3.3861+00	3.0337+00
-5.2	2.8817+00	3.3080+01	3.5961+01	8.9776+01	-3.2083+00	2.8830+00
-5.0	2.7427+00	3.0387+01	3.3130+01	8.5788+01	-3.0297+00	2.7440+00
-4.8	2.6185+00	2.7980+01	3.0599+01	8.2148+01	-2.8499+00	2.6198+00
-4.6	2.5103+00	2.5882+01	2.8393+01	7.8869+01	-2.6682+00	2.5115+00
-4.4	2.4178+00	2.4089+01	2.6507+01	7.5942+01	-2.4845+00	2.4189+00
-4.2	2.3399+00	2.2580+01	2.4920+01	7.3338+01	-2.2987+00	2.3410+00
-4.0	2.2752+00	2.1325+01	2.3601+01	7.1021+01	-2.1109+00	2.2762+00
-3.8	2.2219+00	2.0292+01	2.2513+01	6.8952+01	-1.9212+00	2.2228+00
-3.6	2.1782+00	1.9446+01	2.1624+01	6.7093+01	-1.7298+00	2.1790+00
-3.4	2.1426+00	1.8757+01	2.0899+01	6.5410+01	-1.5370+00	2.1433+00
-3.2	2.1136+00	1.8197+01	2.0310+01	6.3870+01	-1.3429+00	2.1143+00
-3.0	2.0900+00	1.7741+01	1.9831+01	6.2447+01	-1.1478+00	2.0905+00
-2.8	2.0704+00	1.7369+01	1.9439+01	6.1117+01	-9.5186-01	2.0709+00
-2.6	2.0539+00	1.7060+01	1.9114+01	5.9858+01	-7.5533-01	2.0544+00
-2.4	2.0395+00	1.6797+01	1.8836+01	5.8653+01	-5.5840-01	2.0399+00
-2.2	2.0259+00	1.6561+01	1.8587+01	5.7481+01	-3.6131-01	2.0262+00
-2.0	2.0119+00	1.6333+01	1.8345+01	5.6323+01	-1.6431-01	2.0122+00
-1.8	1.9960+00	1.6093+01	1.8089+01	5.5160+01	3.2252-02	1.9963+00
-1.6	1.9764+00	1.5813+01	1.7789+01	5.3965+01	2.2796-01	1.9766+00
-1.4	1.9507+00	1.5465+01	1.7416+01	5.2713+01	4.2228-01	1.9509+00
-1.2	1.9167+00	1.5017+01	1.6934+01	5.1374+01	6.1464-01	1.9167+00
-1.0	1.8722+00	1.4442+01	1.6315+01	4.9926+01	8.0444-01	1.8721+00
-.8	1.8163+00	1.3728+01	1.5544+01	4.8362+01	9.9127-01	1.8160+00
-.6	1.7497+00	1.2882+01	1.4632+01	4.6695+01	1.1750+00	1.7492+00
-.4	1.6750+00	1.1937+01	1.3612+01	4.4961+01	1.3561+00	1.6742+00
-.2	1.5962+00	1.0939+01	1.2536+01	4.3210+01	1.5352+00	1.5949+00
.0	1.5175+00	9.9414+00	1.1459+01	4.1495+01	1.7132+00	1.5154+00
.2	1.4425+00	8.9881+00	1.0431+01	3.9860+01	1.8912+00	1.4394+00
.4	1.3741+00	8.1115+00	9.4857+00	3.8335+01	2.0701+00	1.3695+00
.6	1.3141+00	7.3298+00	8.6438+00	3.6935+01	2.2507+00	1.3071+00
.8	1.2633+00	6.6492+00	7.9125+00	3.5661+01	2.4336+00	1.2527+00
1.0	1.2223+00	6.0679+00	7.2902+00	3.4508+01	2.6193+00	1.2062+00
1.2	1.1916+00	5.5784+00	6.7701+00	3.3463+01	2.8082+00	1.1670+00
1.4	1.1721+00	5.1709+00	6.3430+00	3.2512+01	3.0010+00	1.1343+00
1.6	1.1654+00	4.8345+00	6.0000+00	3.1638+01	3.1986+00	1.1071+00
1.8	1.1750+00	4.5589+00	5.7340+00	3.0824+01	3.4021+00	1.0847+00
2.0	1.2066+00	4.3349+00	5.5415+00	3.0053+01	3.6137+00	1.0662+00
2.2	1.2699+00	4.1551+00	5.4250+00	2.9304+01	3.8358+00	1.0508+00

T= 9400

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.9300-11	6.8800-10	4.9100-01	3.5400-08	1.7600-02	4.9100-01
-6.8	1.8400-10	1.6500-09	4.8600-01	2.2500-08	2.7100-02	4.8600-01
-6.6	6.6200-10	3.8600-09	4.7900-01	1.4400-08	4.1100-02	4.7900-01
-6.4	2.2800-09	8.7400-09	4.6900-01	9.2800-09	6.1300-02	4.6900-01
-6.2	7.4500-09	1.9000-08	4.5500-01	6.0100-09	8.9000-02	4.5500-01
-6.0	2.2800-08	3.9600-08	4.3700-01	3.9200-09	1.2600-01	4.3700-01
-5.8	6.4700-08	7.8000-08	4.1400-01	2.5800-09	1.7200-01	4.1400-01
-5.6	1.7100-07	1.4500-07	3.8700-01	1.7100-09	2.2700-01	3.8700-01
-5.4	4.1800-07	2.5700-07	3.5600-01	1.1300-09	2.8900-01	3.5600-01
-5.2	9.5800-07	4.3200-07	3.2200-01	7.5300-10	3.5600-01	3.2200-01
-5.0	2.0700-06	6.9500-07	2.8700-01	5.0000-10	4.2600-01	2.8700-01
-4.8	4.2300-06	1.0700-06	2.5200-01	3.3200-10	4.9600-01	2.5200-01
-4.6	8.2800-06	1.6000-06	2.1800-01	2.1900-10	5.6400-01	2.1800-01
-4.4	1.5600-05	2.3200-06	1.8700-01	1.4400-10	6.2700-01	1.8700-01
-4.2	2.8500-05	3.2800-06	1.5800-01	9.4400-11	6.8500-01	1.5800-01
-4.0	5.0600-05	4.5300-06	1.3200-01	6.1500-11	7.3600-01	1.3200-01
-3.8	8.8100-05	6.1600-06	1.0900-01	4.0000-11	7.8100-01	1.0900-01
-3.6	1.5000-04	8.2600-06	9.0100-02	2.5800-11	8.2000-01	9.0100-02
-3.4	2.5300-04	1.0900-05	7.3700-02	1.6700-11	8.5200-01	7.3700-02
-3.2	4.2100-04	1.4300-05	5.9900-02	1.0700-11	8.8000-01	6.0000-02
-3.0	6.9300-04	1.8700-05	4.8600-02	6.8700-12	9.0200-01	4.8600-02
-2.8	1.1300-03	2.4100-05	3.9200-02	4.4000-12	9.2000-01	3.9200-02
-2.6	1.8400-03	3.1000-05	3.1600-02	2.8100-12	9.3500-01	3.1600-02
-2.4	2.9600-03	3.9600-05	2.5400-02	1.8000-12	9.4600-01	2.5400-02
-2.2	4.7400-03	5.0400-05	2.0300-02	1.1500-12	9.5500-01	2.0400-02
-2.0	7.5400-03	6.3800-05	1.6300-02	7.3500-13	9.6000-01	1.6300-02
-1.8	1.1900-02	8.0400-05	1.3000-02	4.7100-13	9.6200-01	1.3100-02
-1.6	1.8600-02	1.0100-04	1.0400-02	3.0200-13	9.6000-01	1.0500-02
-1.4	2.8800-02	1.2500-04	8.2600-03	1.9400-13	9.5400-01	8.3900-03
-1.2	4.3900-02	1.5300-04	6.5700-03	1.2500-13	9.4300-01	6.7200-03
-1.0	6.5300-02	1.8400-04	5.2100-03	8.0500-14	9.2400-01	5.3900-03
-.8	9.4800-02	2.1700-04	4.1100-03	5.2100-14	8.9700-01	4.3300-03
-.6	1.3300-01	2.5000-04	3.2300-03	3.3800-14	8.6000-01	3.4800-03
-.4	1.8100-01	2.8100-04	2.5200-03	2.1900-14	8.1300-01	2.8000-03
-.2	2.3800-01	3.0600-04	1.9500-03	1.4200-14	7.5800-01	2.2600-03
.0	3.0200-01	3.2300-04	1.4900-03	9.1100-15	6.9500-01	1.8100-03
.2	3.7000-01	3.3200-04	1.1300-03	5.8000-15	6.2700-01	1.4600-03
.4	4.4100-01	3.3100-04	8.3900-04	3.6500-15	5.5700-01	1.1700-03
.6	5.1100-01	3.2200-04	6.1600-04	2.2700-15	4.8700-01	9.3800-04
.8	5.7800-01	3.0600-04	4.4500-04	1.3900-15	4.2000-01	7.5200-04
1.0	6.4100-01	2.8500-04	3.1800-04	8.3500-16	3.5700-01	6.0300-04
1.2	6.9900-01	2.6100-04	2.2400-04	4.9500-16	3.0000-01	4.8500-04
1.4	7.5000-01	2.3600-04	1.5600-04	2.8900-16	2.4900-01	3.9200-04
1.6	7.9500-01	2.1200-04	1.0800-04	1.6600-16	2.0400-01	3.2000-04
1.8	8.3400-01	1.9000-04	7.4500-05	9.3800-17	1.6500-01	2.6400-04
2.0	8.6800-01	1.7200-04	5.1300-05	5.2300-17	1.3100-01	2.2300-04
2.2	8.9700-01	1.6000-04	3.5600-05	2.8800-17	1.0200-01	1.9500-04

T= 9400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9303+00	5.2883+01	5.6813+01	1.2465+02	-4.8688+00	3.9309+00
-6.8	3.8939+00	5.2186+01	5.6080+01	1.2215+02	-4.6729+00	3.8946+00
-6.6	3.8412+00	5.1179+01	5.5020+01	1.1936+02	-4.4788+00	3.8421+00
-6.4	3.7682+00	4.9781+01	5.3549+01	1.1621+02	-4.2871+00	3.7692+00
-6.2	3.6718+00	4.7936+01	5.1607+01	1.1265+02	-4.0984+00	3.6730+00
-6.0	3.5521+00	4.5641+01	4.9194+01	1.0870+02	-3.9128+00	3.5533+00
-5.8	3.4124+00	4.2966+01	4.6379+01	1.0442+02	-3.7302+00	3.4138+00
-5.6	3.2597+00	4.0039+01	4.3299+01	9.9952+01	-3.5501+00	3.2611+00
-5.4	3.1022+00	3.7020+01	4.0122+01	9.5468+01	-3.3716+00	3.1037+00
-5.2	2.9479+00	3.4063+01	3.7011+01	9.1118+01	-3.1938+00	2.9494+00
-5.0	2.8032+00	3.1288+01	3.4091+01	8.7019+01	-3.0156+00	2.8047+00
-4.8	2.6722+00	2.8775+01	3.1447+01	8.3246+01	-2.8364+00	2.6736+00
-4.6	2.5568+00	2.6561+01	2.9117+01	7.9828+01	-2.6556+00	2.5581+00
-4.4	2.4573+00	2.4653+01	2.7110+01	7.6766+01	-2.4728+00	2.4586+00
-4.2	2.3731+00	2.3036+01	2.5409+01	7.4038+01	-2.2880+00	2.3743+00
-4.0	2.3027+00	2.1686+01	2.3988+01	7.1611+01	-2.1010+00	2.3038+00
-3.8	2.2445+00	2.0568+01	2.2813+01	6.9447+01	-1.9122+00	2.2455+00
-3.6	2.1967+00	1.9651+01	2.1848+01	6.7508+01	-1.7215+00	2.1976+00
-3.4	2.1576+00	1.8903+01	2.1061+01	6.5758+01	-1.5293+00	2.1585+00
-3.2	2.1258+00	1.8295+01	2.0420+01	6.4163+01	-1.3357+00	2.1266+00
-3.0	2.0999+00	1.7800+01	1.9900+01	6.2696+01	-1.1411+00	2.1006+00
-2.8	2.0786+00	1.7396+01	1.9475+01	6.1330+01	-9.4551-01	2.0792+00
-2.6	2.0608+00	1.7063+01	1.9124+01	6.0044+01	-7.4925-01	2.0613+00
-2.4	2.0453+00	1.6782+01	1.8828+01	5.8818+01	-5.5251-01	2.0458+00
-2.2	2.0312+00	1.6535+01	1.8567+01	5.7632+01	-3.5551-01	2.0317+00
-2.0	2.0172+00	1.6304+01	1.8321+01	5.6469+01	-1.5851-01	2.0176+00
-1.8	2.0019+00	1.6068+01	1.8069+01	5.5307+01	3.8164-02	2.0022+00
-1.6	1.9834+00	1.5801+01	1.7784+01	5.4122+01	2.3413-01	1.9836+00
-1.4	1.9595+00	1.5476+01	1.7436+01	5.2889+01	4.2888-01	1.9597+00
-1.2	1.9280+00	1.5062+01	1.6990+01	5.1579+01	6.2184-01	1.9281+00
-1.0	1.8866+00	1.4529+01	1.6416+01	5.0168+01	8.1242-01	1.8866+00
-.8	1.8340+00	1.3860+01	1.5694+01	4.8642+01	1.0001+00	1.8337+00
-.6	1.7702+00	1.3057+01	1.4827+01	4.7008+01	1.1848+00	1.7697+00
-.4	1.6975+00	1.2144+01	1.3841+01	4.5296+01	1.3665+00	1.6967+00
-.2	1.6195+00	1.1164+01	1.2784+01	4.3553+01	1.5461+00	1.6181+00
.0	1.5403+00	1.0170+01	1.1710+01	4.1831+01	1.7243+00	1.5382+00
.2	1.4640+00	9.2087+00	1.0673+01	4.0178+01	1.9023+00	1.4609+00
.4	1.3937+00	8.3155+00	9.7092+00	3.8627+01	2.0809+00	1.3889+00
.6	1.3313+00	7.5124+00	8.8438+00	3.7197+01	2.2610+00	1.3242+00
.8	1.2782+00	6.8088+00	8.0870+00	3.5893+01	2.4433+00	1.2675+00
1.0	1.2350+00	6.2046+00	7.4396+00	3.4710+01	2.6284+00	1.2187+00
1.2	1.2022+00	5.6939+00	6.8962+00	3.3639+01	2.8167+00	1.1774+00
1.4	1.1809+00	5.2673+00	6.4482+00	3.2664+01	3.0089+00	1.1428+00
1.6	1.1727+00	4.9143+00	6.0869+00	3.1769+01	3.2059+00	1.1141+00
1.8	1.1810+00	4.6243+00	5.8052+00	3.0938+01	3.4090+00	1.0903+00
2.0	1.2114+00	4.3881+00	5.5995+00	3.0152+01	3.6200+00	1.0706+00
2.2	1.2737+00	4.1979+00	5.4716+00	2.9391+01	3.8418+00	1.0542+00

T= 9500

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.9500-11	5.1200-10	4.9300-01	5.2600-08	1.4500-02	4.9300-01
-6.8	1.1100-10	1.2400-09	4.8900-01	3.3400-08	2.2400-02	4.8900-01
-6.6	4.0700-10	2.9300-09	4.8300-01	2.1400-08	3.4300-02	4.8300-01
-6.4	1.4300-09	6.7300-09	4.7400-01	1.3700-08	5.1600-02	4.7400-01
-6.2	4.8000-09	1.4900-08	4.6200-01	8.8500-09	7.5800-02	4.6200-01
-6.0	1.5100-08	3.1700-08	4.4600-01	5.7600-09	1.0800-01	4.4600-01
-5.8	4.4400-08	6.4000-08	4.2500-01	3.7800-09	1.5000-01	4.2500-01
-5.6	1.2100-07	1.2200-07	3.9900-01	2.4900-09	2.0100-01	3.9900-01
-5.4	3.0600-07	2.2100-07	3.7000-01	1.6500-09	2.6100-01	3.7000-01
-5.2	7.2000-07	3.8000-07	3.3700-01	1.1000-09	3.2600-01	3.3700-01
-5.0	1.5900-06	6.2300-07	3.0200-01	7.3000-10	3.9500-01	3.0200-01
-4.8	3.3400-06	9.7800-07	2.6700-01	4.8500-10	4.6600-01	2.6700-01
-4.6	6.6500-06	1.4800-06	2.3300-01	3.2100-10	5.3400-01	2.3300-01
-4.4	1.2700-05	2.1700-06	2.0000-01	2.1100-10	6.0000-01	2.0000-01
-4.2	2.3600-05	3.1000-06	1.7000-01	1.3900-10	6.6000-01	1.7000-01
-4.0	4.2400-05	4.3300-06	1.4300-01	9.0700-11	7.1400-01	1.4300-01
-3.8	7.4400-05	5.9300-06	1.1900-01	5.9000-11	7.6200-01	1.1900-01
-3.6	1.2800-04	7.9900-06	9.8200-02	3.8200-11	8.0300-01	9.8200-02
-3.4	2.1700-04	1.0600-05	8.0600-02	2.4700-11	8.3900-01	8.0600-02
-3.2	3.6200-04	1.4000-05	6.5700-02	1.5900-11	8.6800-01	6.5700-02
-3.0	5.9900-04	1.8300-05	5.3300-02	1.0200-11	8.9300-01	5.3300-02
-2.8	9.8100-04	2.3700-05	4.3100-02	6.5400-12	9.1300-01	4.3100-02
-2.6	1.6000-03	3.0500-05	3.4800-02	4.1900-12	9.2900-01	3.4800-02
-2.4	2.5800-03	3.9100-05	2.7900-02	2.6800-12	9.4100-01	2.8000-02
-2.2	4.1400-03	4.9800-05	2.2400-02	1.7100-12	9.5100-01	2.2500-02
-2.0	6.6000-03	6.3200-05	1.8000-02	1.1000-12	9.5700-01	1.8000-02
-1.8	1.0500-02	7.9800-05	1.4400-02	7.0200-13	9.6100-01	1.4400-02
-1.6	1.6400-02	1.0000-04	1.1500-02	4.5000-13	9.6000-01	1.1600-02
-1.4	2.5500-02	1.2500-04	9.1400-03	2.8900-13	9.5600-01	9.2700-03
-1.2	3.9000-02	1.5300-04	7.2800-03	1.8600-13	9.4600-01	7.4300-03
-1.0	5.8400-02	1.8500-04	5.7800-03	1.2000-13	9.3000-01	5.9600-03
-.8	8.5500-02	2.2000-04	4.5700-03	7.7700-14	9.0500-01	4.7900-03
-.6	1.2100-01	2.5600-04	3.6000-03	5.0400-14	8.7100-01	3.8500-03
-.4	1.6700-01	2.8900-04	2.8100-03	3.2700-14	8.2700-01	3.1000-03
-.2	2.2100-01	3.1800-04	2.1800-03	2.1200-14	7.7400-01	2.5000-03
.0	2.8300-01	3.3900-04	1.6700-03	1.3700-14	7.1300-01	2.0100-03
.2	3.5000-01	3.5100-04	1.2700-03	8.7300-15	6.4600-01	1.6200-03
.4	4.2100-01	3.5300-04	9.4800-04	5.5200-15	5.7700-01	1.3000-03
.6	4.9100-01	3.4600-04	6.9900-04	3.4400-15	5.0700-01	1.0400-03
.8	5.6000-01	3.3100-04	5.0800-04	2.1200-15	4.3900-01	8.3900-04
1.0	6.2400-01	3.1000-04	3.6400-04	1.2800-15	3.7400-01	6.7400-04
1.2	6.8300-01	2.8500-04	2.5700-04	7.6300-16	3.1500-01	5.4300-04
1.4	7.3700-01	2.5900-04	1.8000-04	4.4800-16	2.6200-01	4.3900-04
1.6	7.8400-01	2.3400-04	1.2500-04	2.5900-16	2.1600-01	3.5900-04
1.8	8.2500-01	2.1000-04	8.6400-05	1.4700-16	1.7500-01	2.9700-04
2.0	8.6000-01	1.9100-04	5.9700-05	8.2700-17	1.3900-01	2.5100-04
2.2	8.9100-01	1.7800-04	4.1500-05	4.5800-17	1.0900-01	2.2000-04



T= 9500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9423+00	5.2622+01	5.6564+01	1.2495+02	-4.8629+00	3.9428+00
-6.8	3.9115+00	5.2040+01	5.5952+01	1.2256+02	-4.6663+00	3.9122+00
-6.6	3.8665+00	5.1188+01	5.5055+01	1.1992+02	-4.4714+00	3.8673+00
-6.4	3.8029+00	4.9983+01	5.3786+01	1.1694+02	-4.2786+00	3.8039+00
-6.2	3.7170+00	4.8355+01	5.2072+01	1.1358+02	-4.0885+00	3.7181+00
-6.0	3.6072+00	4.6275+01	4.9882+01	1.0982+02	-3.9015+00	3.6085+00
-5.8	3.4756+00	4.3780+01	4.7256+01	1.0569+02	-3.7176+00	3.4771+00
-5.6	3.3277+00	4.0974+01	4.4301+01	1.0132+02	-3.5365+00	3.3292+00
-5.4	3.1712+00	3.8006+01	4.1177+01	9.6851+01	-3.3574+00	3.1728+00
-5.2	3.0147+00	3.5035+01	3.8050+01	9.2456+01	-3.1794+00	3.0163+00
-5.0	2.8652+00	3.2198+01	3.5063+01	8.8265+01	-3.0015+00	2.8668+00
-4.8	2.7278+00	2.9590+01	3.2318+01	8.4369+01	-2.8229+00	2.7294+00
-4.6	2.6054+00	2.7266+01	2.9871+01	8.0818+01	-2.6428+00	2.6069+00
-4.4	2.4990+00	2.5245+01	2.7744+01	7.7623+01	-2.4609+00	2.5004+00
-4.2	2.4082+00	2.3521+01	2.5930+01	7.4770+01	-2.2770+00	2.4096+00
-4.0	2.3320+00	2.2073+01	2.4405+01	7.2230+01	-2.0910+00	2.3332+00
-3.8	2.2686+00	2.0869+01	2.3138+01	6.9968+01	-1.9029+00	2.2698+00
-3.6	2.2165+00	1.9879+01	2.2095+01	6.7945+01	-1.7130+00	2.2175+00
-3.4	2.1738+00	1.9068+01	2.1242+01	6.6124+01	-1.5215+00	2.1747+00
-3.2	2.1390+00	1.8408+01	2.0547+01	6.4471+01	-1.3285+00	2.1398+00
-3.0	2.1106+00	1.7871+01	1.9982+01	6.2956+01	-1.1343+00	2.1113+00
-2.8	2.0873+00	1.7434+01	1.9521+01	6.1552+01	-9.3909-01	2.0880+00
-2.6	2.0680+00	1.7075+01	1.9143+01	6.0236+01	-7.4313-01	2.0686+00
-2.4	2.0515+00	1.6775+01	1.8826+01	5.8987+01	-5.4660-01	2.0521+00
-2.2	2.0368+00	1.6515+01	1.8552+01	5.7787+01	-3.4973-01	2.0373+00
-2.0	2.0226+00	1.6278+01	1.8300+01	5.6615+01	-1.5277-01	2.0230+00
-1.8	2.0075+00	1.6042+01	1.8050+01	5.5451+01	4.3978-02	2.0078+00
-1.6	1.9899+00	1.5785+01	1.7775+01	5.4274+01	2.4015-01	1.9902+00
-1.4	1.9676+00	1.5480+01	1.7448+01	5.3057+01	4.3527-01	1.9678+00
-1.2	1.9385+00	1.5095+01	1.7034+01	5.1773+01	6.2878-01	1.9385+00
-1.0	1.9000+00	1.4602+01	1.6502+01	5.0395+01	8.2007-01	1.8999+00
-.8	1.8505+00	1.3977+01	1.5827+01	4.8906+01	1.0086+00	1.8503+00
-.6	1.7897+00	1.3216+01	1.5006+01	4.7306+01	1.1941+00	1.7892+00
-.4	1.7192+00	1.2337+01	1.4057+01	4.5619+01	1.3767+00	1.7184+00
-.2	1.6423+00	1.1380+01	1.3022+01	4.3888+01	1.5568+00	1.6409+00
.0	1.5630+00	1.0394+01	1.1957+01	4.2163+01	1.7353+00	1.5609+00
.2	1.4856+00	9.4272+00	1.0913+01	4.0495+01	1.9132+00	1.4825+00
.4	1.4135+00	8.5198+00	9.9333+00	3.8920+01	2.0916+00	1.4087+00
.6	1.3490+00	7.6970+00	9.0459+00	3.7462+01	2.2713+00	1.3418+00
.8	1.2935+00	6.9711+00	8.2646+00	3.6128+01	2.4531+00	1.2827+00
1.0	1.2481+00	6.3444+00	7.5925+00	3.4916+01	2.6376+00	1.2316+00
1.2	1.2132+00	5.8124+00	7.0257+00	3.3818+01	2.8253+00	1.1882+00
1.4	1.1900+00	5.3665+00	6.5566+00	3.2819+01	3.0169+00	1.1517+00
1.6	1.1803+00	4.9965+00	6.1767+00	3.1904+01	3.2133+00	1.1213+00
1.8	1.1872+00	4.6918+00	5.8790+00	3.1055+01	3.4158+00	1.0961+00
2.0	1.2164+00	4.4431+00	5.6595+00	3.0254+01	3.6264+00	1.0752+00
2.2	1.2777+00	4.2423+00	5.5200+00	2.9480+01	3.8478+00	1.0578+00

T= 9600

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.7800-11	3.8300-10	4.9400-01	7.7500-08	1.2000-02	4.9400-01
-6.8	6.7700-11	9.3100-10	4.9100-01	4.9300-08	1.8600-02	4.9100-01
-6.6	2.5100-10	2.2200-09	4.8600-01	3.1400-08	2.8600-02	4.8600-01
-6.4	9.0000-10	5.1800-09	4.7800-01	2.0100-08	4.3400-02	4.7800-01
-6.2	3.0800-09	1.1700-08	4.6800-01	1.3000-08	6.4400-02	4.6800-01
-6.0	9.9800-09	2.5300-08	4.5300-01	8.4000-09	9.3300-02	4.5300-01
-5.8	3.0200-08	5.2300-08	4.3400-01	5.4900-09	1.3100-01	4.3400-01
-5.6	8.5000-08	1.0200-07	4.1100-01	3.6100-09	1.7800-01	4.1100-01
-5.4	2.2200-07	1.8900-07	3.8300-01	2.3900-09	2.3400-01	3.8300-01
-5.2	5.3900-07	3.3200-07	3.5100-01	1.5900-09	2.9700-01	3.5100-01
-5.0	1.2200-06	5.5600-07	3.1700-01	1.0600-09	3.6500-01	3.1700-01
-4.8	2.6200-06	8.8800-07	2.8200-01	7.0200-10	4.3500-01	2.8200-01
-4.6	5.3300-06	1.3700-06	2.4700-01	4.6500-10	5.0500-01	2.4700-01
-4.4	1.0400-05	2.0300-06	2.1400-01	3.0700-10	5.7200-01	2.1400-01
-4.2	1.9500-05	2.9300-06	1.8300-01	2.0200-10	6.3500-01	1.8300-01
-4.0	3.5400-05	4.1200-06	1.5400-01	1.3200-10	6.9200-01	1.5400-01
-3.8	6.2800-05	5.6900-06	1.2900-01	8.6300-11	7.4200-01	1.2900-01
-3.6	1.0900-04	7.7200-06	1.0700-01	5.6000-11	7.8600-01	1.0700-01
-3.4	1.8600-04	1.0300-05	8.7800-02	3.6200-11	8.2400-01	8.7800-02
-3.2	3.1200-04	1.3700-05	7.1800-02	2.3400-11	8.5600-01	7.1800-02
-3.0	5.1800-04	1.7900-05	5.8400-02	1.5000-11	8.8300-01	5.8400-02
-2.8	8.5200-04	2.3300-05	4.7300-02	9.6400-12	9.0400-01	4.7300-02
-2.6	1.3900-03	3.0000-05	3.8200-02	6.1800-12	9.2200-01	3.8200-02
-2.4	2.2500-03	3.8600-05	3.0700-02	3.9600-12	9.3600-01	3.0800-02
-2.2	3.6200-03	4.9300-05	2.4700-02	2.5300-12	9.4700-01	2.4700-02
-2.0	5.7900-03	6.2700-05	1.9800-02	1.6200-12	9.5500-01	1.9800-02
-1.8	9.1900-03	7.9300-05	1.5800-02	1.0400-12	9.5900-01	1.5900-02
-1.6	1.4500-02	9.9700-05	1.2700-02	6.6600-13	9.6000-01	1.2800-02
-1.4	2.2600-02	1.2400-04	1.0100-02	4.2800-13	9.5700-01	1.0200-02
-1.2	3.4700-02	1.5300-04	8.0400-03	2.7500-13	9.4900-01	8.1900-03
-1.0	5.2300-02	1.8700-04	6.3900-03	1.7800-13	9.3500-01	6.5700-03
-.8	7.7100-02	2.2300-04	5.0600-03	1.1500-13	9.1200-01	5.2800-03
-.6	1.1000-01	2.6100-04	3.9900-03	7.4600-14	8.8100-01	4.2500-03
-.4	1.5300-01	2.9800-04	3.1300-03	4.8500-14	8.4000-01	3.4200-03
-.2	2.0500-01	3.3000-04	2.4300-03	3.1400-14	7.8900-01	2.7600-03
.0	2.6500-01	3.5400-04	1.8700-03	2.0300-14	7.3000-01	2.2200-03
.2	3.3100-01	3.7000-04	1.4200-03	1.3000-14	6.6500-01	1.7900-03
.4	4.0100-01	3.7500-04	1.0700-03	8.2700-15	5.9600-01	1.4400-03
.6	4.7200-01	3.7000-04	7.9000-04	5.1800-15	5.2600-01	1.1600-03
.8	5.4100-01	3.5700-04	5.7600-04	3.2000-15	4.5700-01	9.3300-04
1.0	6.0700-01	3.3600-04	4.1500-04	1.9500-15	3.9100-01	7.5100-04
1.2	6.6800-01	3.1100-04	2.9500-04	1.1700-15	3.3100-01	6.0600-04
1.4	7.2300-01	2.8400-04	2.0700-04	6.8900-16	2.7600-01	4.9100-04
1.6	7.7200-01	2.5700-04	1.4400-04	4.0000-16	2.2700-01	4.0100-04
1.8	8.1500-01	2.3300-04	9.9900-05	2.2900-16	1.8500-01	3.3300-04
2.0	8.5200-01	2.1300-04	6.9200-05	1.3000-16	1.4700-01	2.8200-04
2.2	8.8400-01	1.9900-04	4.8200-05	7.2400-17	1.1500-01	2.4700-04

T= 9600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9521+00	5.2326+01	5.6278+01	1.2520+02	-4.8573+00	3.9526+00
-6.8	3.9262+00	5.1842+01	5.5768+01	1.2290+02	-4.6602+00	3.9269+00
-6.6	3.8878+00	5.1123+01	5.5011+01	1.2039+02	-4.4644+00	3.8887+00
-6.4	3.8327+00	5.0090+01	5.3923+01	1.1757+02	-4.2706+00	3.8337+00
-6.2	3.7567+00	4.8665+01	5.2422+01	1.1440+02	-4.0793+00	3.7579+00
-6.0	3.6572+00	4.6798+01	5.0455+01	1.1083+02	-3.8910+00	3.6585+00
-5.8	3.5345+00	4.4496+01	4.8030+01	1.0687+02	-3.7058+00	3.5360+00
-5.6	3.3927+00	4.1834+01	4.5227+01	1.0261+02	-3.5236+00	3.3943+00
-5.4	3.2389+00	3.8946+01	4.2184+01	9.8194+01	-3.3437+00	3.2406+00
-5.2	3.0814+00	3.5988+01	3.9069+01	9.3780+01	-3.1654+00	3.0832+00
-5.0	2.9281+00	3.3108+01	3.6037+01	8.9517+01	-2.9875+00	2.9299+00
-4.8	2.7851+00	3.0420+01	3.3206+01	8.5514+01	-2.8093+00	2.7868+00
-4.6	2.6560+00	2.7995+01	3.0651+01	8.1837+01	-2.6299+00	2.6577+00
-4.4	2.5428+00	2.5866+01	2.8408+01	7.8511+01	-2.4488+00	2.5444+00
-4.2	2.4454+00	2.4035+01	2.6480+01	7.5532+01	-2.2658+00	2.4469+00
-4.0	2.3631+00	2.2487+01	2.4850+01	7.2877+01	-2.0807+00	2.3645+00
-3.8	2.2944+00	2.1195+01	2.3489+01	7.0513+01	-1.8935+00	2.2957+00
-3.6	2.2376+00	2.0127+01	2.2365+01	6.8403+01	-1.7043+00	2.2388+00
-3.4	2.1911+00	1.9252+01	2.1443+01	6.6508+01	-1.5135+00	2.1921+00
-3.2	2.1530+00	1.8538+01	2.0691+01	6.4794+01	-1.3211+00	2.1540+00
-3.0	2.1220+00	1.7957+01	2.0079+01	6.3229+01	-1.1274+00	2.1229+00
-2.8	2.0966+00	1.7483+01	1.9580+01	6.1784+01	-9.3260-01	2.0974+00
-2.6	2.0757+00	1.7096+01	1.9172+01	6.0436+01	-7.3696-01	2.0764+00
-2.4	2.0580+00	1.6774+01	1.8832+01	5.9163+01	-5.4068-01	2.0586+00
-2.2	2.0425+00	1.6500+01	1.8542+01	5.7944+01	-3.4397-01	2.0430+00
-2.0	2.0279+00	1.6254+01	1.8282+01	5.6761+01	-1.4708-01	2.0284+00
-1.8	2.0130+00	1.6017+01	1.8030+01	5.5594+01	4.9708-02	2.0134+00
-1.6	1.9960+00	1.5767+01	1.7763+01	5.4421+01	2.4604-01	1.9964+00
-1.4	1.9751+00	1.5478+01	1.7453+01	5.3217+01	4.4147-01	1.9754+00
-1.2	1.9480+00	1.5119+01	1.7067+01	5.1954+01	6.3546-01	1.9481+00
-1.0	1.9122+00	1.4660+01	1.6573+01	5.0607+01	8.2740-01	1.9122+00
-.8	1.8658+00	1.4077+01	1.5943+01	4.9153+01	1.0167+00	1.8656+00
-.6	1.8080+00	1.3359+01	1.5167+01	4.7588+01	1.2031+00	1.8076+00
-.4	1.7399+00	1.2516+01	1.4256+01	4.5929+01	1.3864+00	1.7391+00
-.2	1.6644+00	1.1584+01	1.3248+01	4.4212+01	1.5671+00	1.6630+00
.0	1.5854+00	1.0609+01	1.2194+01	4.2489+01	1.7460+00	1.5833+00
.2	1.5072+00	9.6408+00	1.1148+01	4.0809+01	1.9240+00	1.5040+00
.4	1.4334+00	8.7219+00	1.0155+01	3.9213+01	2.1023+00	1.4286+00
.6	1.3669+00	7.8811+00	9.2480+00	3.7728+01	2.2816+00	1.3596+00
.8	1.3092+00	7.1341+00	8.4433+00	3.6365+01	2.4629+00	1.2982+00
1.0	1.2615+00	6.4856+00	7.7471+00	3.5125+01	2.6467+00	1.2449+00
1.2	1.2246+00	5.9326+00	7.1572+00	3.4000+01	2.8338+00	1.1993+00
1.4	1.1995+00	5.4675+00	6.6670+00	3.2977+01	3.0249+00	1.1609+00
1.6	1.1881+00	5.0804+00	6.2684+00	3.2041+01	3.2207+00	1.1288+00
1.8	1.1936+00	4.7609+00	5.9544+00	3.1174+01	3.4227+00	1.1021+00
2.0	1.2217+00	4.4993+00	5.7210+00	3.0357+01	3.6328+00	1.0800+00
2.2	1.2819+00	4.2877+00	5.5696+00	2.9571+01	3.8537+00	1.0615+00

T= 9700

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0800-11	2.8800-10	4.9500-01	1.1300-07	9.9400-03	4.9500-01
-6.8	4.1400-11	7.0300-10	4.9200-01	7.2000-08	1.5500-02	4.9200-01
-6.6	1.5500-10	1.6900-09	4.8800-01	4.5800-08	2.3900-02	4.8800-01
-6.4	5.6600-10	3.9900-09	4.8200-01	2.9300-08	3.6500-02	4.8200-01
-6.2	1.9800-09	9.1300-09	4.7300-01	1.8800-08	5.4700-02	4.7300-01
-6.0	6.5700-09	2.0100-08	4.6000-01	1.2200-08	8.0100-02	4.6000-01
-5.8	2.0500-08	4.2500-08	4.4300-01	7.9300-09	1.1400-01	4.4300-01
-5.6	5.9500-08	8.5000-08	4.2100-01	5.2100-09	1.5700-01	4.2100-01
-5.4	1.6000-07	1.6100-07	3.9500-01	3.4400-09	2.1000-01	3.9500-01
-5.2	4.0100-07	2.8900-07	3.6500-01	2.2800-09	2.7000-01	3.6500-01
-5.0	9.3500-07	4.9300-07	3.3200-01	1.5200-09	3.3600-01	3.3200-01
-4.8	2.0500-06	8.0200-07	2.9700-01	1.0100-09	4.0600-01	2.9700-01
-4.6	4.2600-06	1.2500-06	2.6200-01	6.7000-10	4.7600-01	2.6200-01
-4.4	8.4400-06	1.8900-06	2.2800-01	4.4300-10	5.4400-01	2.2800-01
-4.2	1.6100-05	2.7600-06	1.9600-01	2.9200-10	6.0900-01	1.9600-01
-4.0	2.9600-05	3.9200-06	1.6600-01	1.9200-10	6.6800-01	1.6600-01
-3.8	5.3000-05	5.4600-06	1.3900-01	1.2500-10	7.2200-01	1.3900-01
-3.6	9.2700-05	7.4600-06	1.1600-01	8.1400-11	7.6800-01	1.1600-01
-3.4	1.5900-04	1.0000-05	9.5500-02	5.2700-11	8.0900-01	9.5500-02
-3.2	2.6900-04	1.3300-05	7.8300-02	3.4100-11	8.4300-01	7.8300-02
-3.0	4.4900-04	1.7500-05	6.3800-02	2.1900-11	8.7200-01	6.3800-02
-2.8	7.4100-04	2.2900-05	5.1800-02	1.4100-11	8.9600-01	5.1800-02
-2.6	1.2100-03	2.9600-05	4.1800-02	9.0500-12	9.1500-01	4.1800-02
-2.4	1.9700-03	3.8100-05	3.3700-02	5.8000-12	9.3100-01	3.3800-02
-2.2	3.1700-03	4.8800-05	2.7100-02	3.7100-12	9.4300-01	2.7200-02
-2.0	5.0900-03	6.2100-05	2.1700-02	2.3800-12	9.5100-01	2.1800-02
-1.8	8.1000-03	7.8700-05	1.7400-02	1.5200-12	9.5700-01	1.7500-02
-1.6	1.2800-02	9.9200-05	1.3900-02	9.7800-13	9.5900-01	1.4000-02
-1.4	2.0000-02	1.2400-04	1.1100-02	6.2800-13	9.5800-01	1.1200-02
-1.2	3.0900-02	1.5400-04	8.8600-03	4.0400-13	9.5100-01	9.0200-03
-1.0	4.6900-02	1.8800-04	7.0500-03	2.6100-13	9.3900-01	7.2400-03
-.8	6.9500-02	2.2600-04	5.5900-03	1.6900-13	9.1900-01	5.8200-03
-.6	1.0000-01	2.6600-04	4.4100-03	1.1000-13	8.9000-01	4.6800-03
-.4	1.4100-01	3.0500-04	3.4700-03	7.1300-14	8.5200-01	3.7700-03
-.2	1.9000-01	3.4100-04	2.7000-03	4.6300-14	8.0400-01	3.0400-03
.0	2.4800-01	3.7000-04	2.0800-03	3.0000-14	7.4700-01	2.4500-03
.2	3.1300-01	3.8900-04	1.5900-03	1.9300-14	6.8300-01	1.9800-03
.4	3.8200-01	3.9700-04	1.2000-03	1.2300-14	6.1500-01	1.6000-03
.6	4.5300-01	3.9500-04	8.9000-04	7.7300-15	5.4500-01	1.2900-03
.8	5.2300-01	3.8300-04	6.5200-04	4.8000-15	4.7500-01	1.0400-03
1.0	5.9000-01	3.6300-04	4.7100-04	2.9400-15	4.0900-01	8.3500-04
1.2	6.5200-01	3.3800-04	3.3600-04	1.7700-15	3.4600-01	6.7400-04
1.4	7.0900-01	3.1100-04	2.3700-04	1.0500-15	2.9000-01	5.4700-04
1.6	7.6000-01	2.8300-04	1.6600-04	6.1400-16	2.3900-01	4.4800-04
1.8	8.0500-01	2.5700-04	1.1500-04	3.5400-16	1.9500-01	3.7200-04
2.0	8.4400-01	2.3600-04	7.9900-05	2.0200-16	1.5600-01	3.1500-04
2.2	8.7700-01	2.2100-04	5.5800-05	1.1300-16	1.2200-01	2.7700-04

T= 9700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9601+00	5.2004+01	5.5964+01	1.2542+02	-4.8519+00	3.9606+00
-6.8	3.9383+00	5.1600+01	5.5539+01	1.2320+02	-4.6543+00	3.9390+00
-6.6	3.9057+00	5.0996+01	5.4902+01	1.2079+02	-4.4579+00	3.9065+00
-6.4	3.8582+00	5.0114+01	5.3973+01	1.1812+02	-4.2632+00	3.8592+00
-6.2	3.7914+00	4.8875+01	5.2666+01	1.1512+02	-4.0708+00	3.7925+00
-6.0	3.7019+00	4.7214+01	5.0916+01	1.1173+02	-3.8812+00	3.7033+00
-5.8	3.5887+00	4.5111+01	4.8700+01	1.0795+02	-3.6947+00	3.5902+00
-5.6	3.4542+00	4.2613+01	4.6067+01	1.0383+02	-3.5113+00	3.4560+00
-5.4	3.3045+00	3.9829+01	4.3134+01	9.9485+01	-3.3305+00	3.3063+00
-5.2	3.1475+00	3.6911+01	4.0058+01	9.5081+01	-3.1517+00	3.1495+00
-5.0	2.9917+00	3.4012+01	3.7004+01	9.0769+01	-2.9737+00	2.9936+00
-4.8	2.8437+00	3.1260+01	3.4104+01	8.6674+01	-2.7957+00	2.8457+00
-4.6	2.7085+00	2.8744+01	3.1452+01	8.2879+01	-2.6169+00	2.7103+00
-4.4	2.5885+00	2.6510+01	2.9099+01	7.9427+01	-2.4366+00	2.5903+00
-4.2	2.4845+00	2.4574+01	2.7059+01	7.6323+01	-2.2544+00	2.4861+00
-4.0	2.3960+00	2.2927+01	2.5323+01	7.3552+01	-2.0701+00	2.3975+00
-3.8	2.3218+00	2.1544+01	2.3866+01	7.1084+01	-1.8838+00	2.3232+00
-3.6	2.2602+00	2.0398+01	2.2658+01	6.8883+01	-1.6955+00	2.2615+00
-3.4	2.2095+00	1.9455+01	2.1664+01	6.6911+01	-1.5053+00	2.2107+00
-3.2	2.1681+00	1.8684+01	2.0852+01	6.5133+01	-1.3136+00	2.1692+00
-3.0	2.1343+00	1.8055+01	2.0190+01	6.3514+01	-1.1204+00	2.1352+00
-2.8	2.1066+00	1.7544+01	1.9651+01	6.2027+01	-9.2604-01	2.1075+00
-2.6	2.0839+00	1.7126+01	1.9210+01	6.0644+01	-7.3075-01	2.0847+00
-2.4	2.0649+00	1.6781+01	1.8846+01	5.9344+01	-5.3473-01	2.0656+00
-2.2	2.0484+00	1.6490+01	1.8539+01	5.8106+01	-3.3821-01	2.0490+00
-2.0	2.0333+00	1.6234+01	1.8267+01	5.6910+01	-1.4142-01	2.0339+00
-1.8	2.0183+00	1.5994+01	1.8012+01	5.5736+01	5.5367-02	2.0188+00
-1.6	2.0019+00	1.5747+01	1.7749+01	5.4564+01	2.5181-01	2.0023+00
-1.4	1.9821+00	1.5470+01	1.7453+01	5.3370+01	4.4750-01	1.9824+00
-1.2	1.9567+00	1.5134+01	1.7091+01	5.2126+01	6.4190-01	1.9569+00
-1.0	1.9234+00	1.4707+01	1.6630+01	5.0805+01	8.3444-01	1.9234+00
-.8	1.8799+00	1.4163+01	1.6042+01	4.9385+01	1.0245+00	1.8798+00
-.6	1.8252+00	1.3485+01	1.5311+01	4.7854+01	1.2117+00	1.8248+00
-.4	1.7597+00	1.2681+01	1.4440+01	4.6223+01	1.3958+00	1.7589+00
-.2	1.6858+00	1.1776+01	1.3461+01	4.4525+01	1.5772+00	1.6844+00
.0	1.6073+00	1.0815+01	1.2422+01	4.2806+01	1.7565+00	1.6052+00
.2	1.5285+00	9.8489+00	1.1377+01	4.1118+01	1.9346+00	1.5253+00
.4	1.4534+00	8.9212+00	1.0375+01	3.9503+01	2.1128+00	1.4485+00
.6	1.3849+00	8.0645+00	9.4494+00	3.7994+01	2.2918+00	1.3776+00
.8	1.3251+00	7.2977+00	8.6228+00	3.6603+01	2.4726+00	1.3140+00
1.0	1.2752+00	6.6281+00	7.9033+00	3.5335+01	2.6559+00	1.2584+00
1.2	1.2362+00	6.0545+00	7.2906+00	3.4184+01	2.8425+00	1.2107+00
1.4	1.2092+00	5.5702+00	6.7794+00	3.3137+01	3.0329+00	1.1704+00
1.6	1.1961+00	5.1659+00	6.3620+00	3.2179+01	3.2282+00	1.1365+00
1.8	1.2002+00	4.8314+00	6.0316+00	3.1294+01	3.4296+00	1.1084+00
2.0	1.2271+00	4.5569+00	5.7840+00	3.0461+01	3.6392+00	1.0849+00
2.2	1.2862+00	4.3343+00	5.6205+00	2.9661+01	3.8597+00	1.0654+00

T= 9800

LOG D	N2	N2+	N+	N++	N	E
-7.0	6.6300-12	2.1700-10	4.9600-01	1.6500-07	8.2700-03	4.9600-01
-6.8	2.5500-11	5.3200-10	4.9400-01	1.0500-07	1.2900-02	4.9400-01
-6.6	9.6600-11	1.2900-09	4.9000-01	6.6500-08	2.0000-02	4.9000-01
-6.4	3.5700-10	3.0700-09	4.8500-01	4.2400-08	3.0700-02	4.8500-01
-6.2	1.2700-09	7.1200-09	4.7700-01	2.7200-08	4.6400-02	4.7700-01
-6.0	4.3100-09	1.6000-08	4.6600-01	1.7500-08	6.8700-02	4.6600-01
-5.8	1.3800-08	3.4300-08	4.5000-01	1.1400-08	9.9000-02	4.5100-01
-5.6	4.1300-08	7.0200-08	4.3100-01	7.4500-09	1.3800-01	4.3100-01
-5.4	1.1500-07	1.3600-07	4.0600-01	4.9100-09	1.8700-01	4.0600-01
-5.2	2.9600-07	2.5000-07	3.7800-01	3.2500-09	2.4400-01	3.7800-01
-5.0	7.1000-07	4.3500-07	3.4600-01	2.1600-09	3.0800-01	3.4600-01
-4.8	1.6000-06	7.2100-07	3.1200-01	1.4400-09	3.7700-01	3.1200-01
-4.6	3.3900-06	1.1400-06	2.7700-01	9.5600-10	4.4700-01	2.7700-01
-4.4	6.8400-06	1.7500-06	2.4200-01	6.3400-10	5.1600-01	2.4200-01
-4.2	1.3200-05	2.5900-06	2.0900-01	4.1800-10	5.8300-01	2.0900-01
-4.0	2.4700-05	3.7200-06	1.7800-01	2.7500-10	6.4400-01	1.7800-01
-3.8	4.4700-05	5.2200-06	1.5000-01	1.8000-10	7.0000-01	1.5000-01
-3.6	7.8900-05	7.1800-06	1.2500-01	1.1700-10	7.5000-01	1.2500-01
-3.4	1.3600-04	9.7200-06	1.0400-01	7.6200-11	7.9300-01	1.0400-01
-3.2	2.3200-04	1.3000-05	8.5100-02	4.9300-11	8.3000-01	8.5100-02
-3.0	3.8900-04	1.7100-05	6.9500-02	3.1800-11	8.6100-01	6.9500-02
-2.8	6.4500-04	2.2400-05	5.6500-02	2.0500-11	8.8600-01	5.6500-02
-2.6	1.0600-03	2.9100-05	4.5700-02	1.3100-11	9.0700-01	4.5800-02
-2.4	1.7200-03	3.7600-05	3.6900-02	8.4300-12	9.2400-01	3.6900-02
-2.2	2.7900-03	4.8200-05	2.9700-02	5.4000-12	9.3800-01	2.9800-02
-2.0	4.4800-03	6.1500-05	2.3900-02	3.4600-12	9.4800-01	2.3900-02
-1.8	7.1400-03	7.8100-05	1.9100-02	2.2200-12	9.5400-01	1.9200-02
-1.6	1.1300-02	9.8600-05	1.5300-02	1.4200-12	9.5800-01	1.5400-02
-1.4	1.7700-02	1.2400-04	1.2200-02	9.1600-13	9.5800-01	1.2400-02
-1.2	2.7500-02	1.5400-04	9.7500-03	5.9000-13	9.5300-01	9.9100-03
-1.0	4.2000-02	1.8900-04	7.7600-03	3.8100-13	9.4200-01	7.9500-03
-.8	6.2700-02	2.2800-04	6.1600-03	2.4600-13	9.2500-01	6.3900-03
-.6	9.1300-02	2.7000-04	4.8700-03	1.6000-13	8.9800-01	5.1400-03
-.4	1.2900-01	3.1200-04	3.8300-03	1.0400-13	8.6300-01	4.1500-03
-.2	1.7600-01	3.5200-04	2.9900-03	6.7700-14	8.1700-01	3.3500-03
.0	2.3200-01	3.8400-04	2.3200-03	4.3900-14	7.6300-01	2.7000-03
.2	2.9500-01	4.0800-04	1.7700-03	2.8300-14	7.0100-01	2.1800-03
.4	3.6300-01	4.2000-04	1.3400-03	1.8100-14	6.3300-01	1.7600-03
.6	4.3400-01	4.2100-04	1.0000-03	1.1400-14	5.6300-01	1.4200-03
.8	5.0400-01	4.1100-04	7.3600-04	7.1400-15	4.9300-01	1.1500-03
1.0	5.7200-01	3.9200-04	5.3400-04	4.3900-15	4.2600-01	9.2600-04
1.2	6.3600-01	3.6700-04	3.8200-04	2.6600-15	3.6200-01	7.4900-04
1.4	6.9500-01	3.3900-04	2.7000-04	1.5900-15	3.0400-01	6.0900-04
1.6	7.4800-01	3.1000-04	1.9000-04	9.3400-16	2.5100-01	4.9900-04
1.8	7.9400-01	2.8300-04	1.3200-04	5.4200-16	2.0500-01	4.1500-04
2.0	8.3500-01	2.6000-04	9.2000-05	3.1100-16	1.6400-01	3.5200-04
2.2	8.7000-01	2.4600-04	6.4500-05	1.7600-16	1.2900-01	3.1000-04

T= 9800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9667+00	5.1662+01	5.5628+01	1.2561+02	-4.8467+00	3.9672+00
-6.8	3.9484+00	5.1326+01	5.5274+01	1.2345+02	-4.6488+00	3.9490+00
-6.6	3.9207+00	5.0818+01	5.4739+01	1.2113+02	-4.4518+00	3.9215+00
-6.4	3.8798+00	5.0068+01	5.3948+01	1.1859+02	-4.2564+00	3.8808+00
-6.2	3.8214+00	4.8996+01	5.2817+01	1.1574+02	-4.0630+00	3.8226+00
-6.0	3.7416+00	4.7529+01	5.1270+01	1.1253+02	-3.8721+00	3.7430+00
-5.8	3.6381+00	4.5676+01	4.9264+01	1.0893+02	-3.6843+00	3.6397+00
-5.6	3.5118+00	4.3304+01	4.6816+01	1.0496+02	-3.4996+00	3.5136+00
-5.4	3.3675+00	4.0648+01	4.4016+01	1.0072+02	-3.3179+00	3.3695+00
-5.2	3.2125+00	3.7795+01	4.1007+01	9.6348+01	-3.1383+00	3.2146+00
-5.0	3.0553+00	3.4900+01	3.7955+01	9.2010+01	-2.9601+00	3.0574+00
-4.8	2.9034+00	3.2102+01	3.5006+01	8.7841+01	-2.7823+00	2.9055+00
-4.6	2.7625+00	2.9507+01	3.2270+01	8.3941+01	-2.6039+00	2.7645+00
-4.4	2.6360+00	2.7177+01	2.9813+01	8.0369+01	-2.4242+00	2.6380+00
-4.2	2.5254+00	2.5138+01	2.7664+01	7.7142+01	-2.2428+00	2.5273+00
-4.0	2.4307+00	2.3391+01	2.5822+01	7.4255+01	-2.0594+00	2.4324+00
-3.8	2.3507+00	2.1917+01	2.4268+01	7.1680+01	-1.8740+00	2.3524+00
-3.6	2.2842+00	2.0690+01	2.2974+01	6.9386+01	-1.6864+00	2.2856+00
-3.4	2.2292+00	1.9676+01	2.1906+01	6.7334+01	-1.4970+00	2.2306+00
-3.2	2.1841+00	1.8846+01	2.1030+01	6.5487+01	-1.3059+00	2.1854+00
-3.0	2.1473+00	1.8169+01	2.0316+01	6.3813+01	-1.1133+00	2.1485+00
-2.8	2.1173+00	1.7617+01	1.9734+01	6.2280+01	-9.1939-01	2.1183+00
-2.6	2.0926+00	1.7167+01	1.9259+01	6.0860+01	-7.2448-01	2.0935+00
-2.4	2.0721+00	1.6797+01	1.8869+01	5.9531+01	-5.2876-01	2.0779+00
-2.2	2.0546+00	1.6487+01	1.8541+01	5.8271+01	-3.3245-01	2.0553+00
-2.0	2.0389+00	1.6218+01	1.8257+01	5.7060+01	-1.3578-01	2.0395+00
-1.8	2.0237+00	1.5972+01	1.7996+01	5.5879+01	6.0972-02	2.0242+00
-1.6	2.0076+00	1.5727+01	1.7735+01	5.4706+01	2.5749-01	2.0080+00
-1.4	1.9887+00	1.5460+01	1.7449+01	5.3518+01	4.5339-01	1.9890+00
-1.2	1.9649+00	1.5142+01	1.7107+01	5.2290+01	6.4816-01	1.9651+00
-1.0	1.9338+00	1.4744+01	1.6677+01	5.0993+01	8.4123-01	1.9339+00
-.8	1.8931+00	1.4236+01	1.6129+01	4.9603+01	1.0320+00	1.8930+00
-.6	1.8413+00	1.3599+01	1.5440+01	4.8106+01	1.2200+00	1.8409+00
-.4	1.7785+00	1.2832+01	1.4611+01	4.6506+01	1.4049+00	1.7777+00
-.2	1.7065+00	1.1957+01	1.3664+01	4.4828+01	1.5869+00	1.7052+00
.0	1.6289+00	1.1014+01	1.2643+01	4.3117+01	1.7667+00	1.6267+00
.2	1.5498+00	1.0053+01	1.1603+01	4.1424+01	1.9451+00	1.5466+00
.4	1.4736+00	9.1191+00	1.0593+01	3.9794+01	2.1232+00	1.4686+00
.6	1.4033+00	8.2484+00	9.6517+00	3.8261+01	2.3020+00	1.3958+00
.8	1.3413+00	7.4630+00	8.8044+00	3.6844+01	2.4824+00	1.3301+00
1.0	1.2893+00	6.7729+00	8.0622+00	3.5549+01	2.6652+00	1.2723+00
1.2	1.2482+00	6.1788+00	7.4270+00	3.4371+01	2.8511+00	1.2225+00
1.4	1.2193+00	5.6754+00	6.8947+00	3.3299+01	3.0409+00	1.1801+00
1.6	1.2045+00	5.2537+00	6.4583+00	3.2320+01	3.2356+00	1.1446+00
1.8	1.2071+00	4.9040+00	6.1111+00	3.1416+01	3.4366+00	1.1148+00
2.0	1.2327+00	4.6163+00	5.8490+00	3.0568+01	3.6457+00	1.0901+00
2.2	1.2908+00	4.3823+00	5.6731+00	2.9754+01	3.8657+00	1.0694+00

T= 9900

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.0900-12	1.6400-10	4.9700-01	2.3800-07	6.8900-03	4.9700-01
-6.8	1.5800-11	4.0500-10	4.9500-01	1.5100-07	1.0800-02	4.9500-01
-6.6	6.0400-11	9.8600-10	4.9200-01	9.5700-08	1.6800-02	4.9200-01
-6.4	2.2500-10	2.3700-09	4.8700-01	6.1000-08	2.5900-02	4.8700-01
-6.2	8.1600-10	5.5500-09	4.8000-01	3.9000-08	3.9400-02	4.8000-01
-6.0	2.8300-09	1.2600-08	4.7100-01	2.5100-08	5.8800-02	4.7100-01
-5.8	9.2900-09	2.7600-08	4.5700-01	1.6300-08	8.5700-02	4.5700-01
-5.6	2.8600-08	5.7700-08	4.3900-01	1.0600-08	1.2100-01	4.3900-01
-5.4	8.1900-08	1.1400-07	4.1700-01	6.9700-09	1.6600-01	4.1700-01
-5.2	2.1700-07	2.1500-07	3.9000-01	4.6100-09	2.2000-01	3.9000-01
-5.0	5.3700-07	3.8200-07	3.5900-01	3.0600-09	2.8200-01	3.5900-01
-4.8	1.2400-06	6.4500-07	3.2600-01	2.0400-09	3.4900-01	3.2600-01
-4.6	2.6900-06	1.0400-06	2.9100-01	1.3500-09	4.1800-01	2.9100-01
-4.4	5.5300-06	1.6200-06	2.5600-01	8.9900-10	4.8800-01	2.5600-01
-4.2	1.0900-05	2.4200-06	2.2200-01	5.9500-10	5.5600-01	2.2200-01
-4.0	2.0600-05	3.5100-06	1.9000-01	3.9200-10	6.2000-01	1.9000-01
-3.8	3.7700-05	4.9800-06	1.6100-01	2.5700-10	6.7800-01	1.6100-01
-3.6	6.7100-05	6.9000-06	1.3500-01	1.6800-10	7.3000-01	1.3500-01
-3.4	1.1700-04	9.4100-06	1.1200-01	1.0900-10	7.7600-01	1.1200-01
-3.2	2.0000-04	1.2600-05	9.2200-02	7.0700-11	8.1500-01	9.2200-02
-3.0	3.3700-04	1.6700-05	7.5500-02	4.5700-11	8.4900-01	7.5500-02
-2.8	5.6200-04	2.2000-05	6.1500-02	2.9400-11	8.7600-01	6.1500-02
-2.6	9.2600-04	2.8600-05	4.9900-02	1.8900-11	8.9900-01	4.9900-02
-2.4	1.5100-03	3.7000-05	4.0300-02	1.2200-11	9.1800-01	4.0300-02
-2.2	2.4500-03	4.7600-05	3.2500-02	7.8000-12	9.3200-01	3.2500-02
-2.0	3.9500-03	6.0900-05	2.6100-02	5.0000-12	9.4400-01	2.6200-02
-1.8	6.3100-03	7.7500-05	2.0900-02	3.2100-12	9.5200-01	2.1000-02
-1.6	1.0000-02	9.8000-05	1.6800-02	2.0600-12	9.5600-01	1.6900-02
-1.4	1.5800-02	1.2300-04	1.3400-02	1.3300-12	9.5700-01	1.3500-02
-1.2	2.4500-02	1.5400-04	1.0700-02	8.5400-13	9.5400-01	1.0900-02
-1.0	3.7600-02	1.8900-04	8.5300-03	5.5100-13	9.4500-01	8.7200-03
-.8	5.6500-02	2.3000-04	6.7800-03	3.5700-13	9.2900-01	7.0100-03
-.6	8.2900-02	2.7400-04	5.3700-03	2.3200-13	9.0600-01	5.6400-03
-.4	1.1800-01	3.1900-04	4.2300-03	1.5100-13	8.7300-01	4.5500-03
-.2	1.6300-01	3.6200-04	3.3100-03	9.8200-14	8.3000-01	3.6700-03
.0	2.1600-01	3.9900-04	2.5700-03	6.3800-14	7.7800-01	2.9700-03
.2	2.7800-01	4.2600-04	1.9700-03	4.1300-14	7.1700-01	2.4000-03
.4	3.4500-01	4.4200-04	1.5000-03	2.6500-14	6.5100-01	1.9400-03
.6	4.1500-01	4.4600-04	1.1200-03	1.6800-14	5.8200-01	1.5700-03
.8	4.8600-01	4.3900-04	8.2700-04	1.0500-14	5.1100-01	1.2700-03
1.0	5.5500-01	4.2200-04	6.0200-04	6.5100-15	4.4300-01	1.0200-03
1.2	6.2100-01	3.9700-04	4.3300-04	3.9600-15	3.7800-01	8.3000-04
1.4	6.8100-01	3.6800-04	3.0700-04	2.3800-15	3.1800-01	6.7600-04
1.6	7.3500-01	3.3900-04	2.1600-04	1.4100-15	2.6400-01	5.5500-04
1.8	7.8300-01	3.1000-04	1.5100-04	8.2300-16	2.1600-01	4.6200-04
2.0	8.2600-01	2.8700-04	1.0600-04	4.7500-16	1.7300-01	3.9300-04
2.2	8.6300-01	2.7200-04	7.4200-05	2.7200-16	1.3600-01	3.4600-04



T= 9900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9721+00	5.1305+01	5.5277+01	1.2578+02	-4.8417+00	3.9726+00
-6.8	3.9567+00	5.1025+01	5.4982+01	1.2367+02	-4.6434+00	3.9573+00
-6.6	3.9331+00	5.0599+01	5.4532+01	1.2143+02	-4.4460+00	3.9340+00
-6.4	3.8981+00	4.9962+01	5.3860+01	1.1899+02	-4.2499+00	3.8991+00
-6.2	3.8473+00	4.9039+01	5.2886+01	1.1628+02	-4.0556+00	3.8485+00
-6.0	3.7765+00	4.7752+01	5.1528+01	1.1324+02	-3.8637+00	3.7780+00
-5.8	3.6827+00	4.6044+01	4.9726+01	1.0981+02	-3.6746+00	3.6843+00
-5.6	3.5653+00	4.3906+01	4.7471+01	1.0600+02	-3.4887+00	3.5672+00
-5.4	3.4275+00	4.1396+01	4.4824+01	1.0188+02	-3.3058+00	3.4296+00
-5.2	3.2759+00	3.8632+01	4.1908+01	9.7574+01	-3.1254+00	3.2780+00
-5.0	3.1185+00	3.5764+01	3.8883+01	9.3233+01	-2.9468+00	3.1208+00
-4.8	2.9637+00	3.2940+01	3.5904+01	8.9009+01	-2.7689+00	2.9660+00
-4.6	2.8178+00	3.0280+01	3.3098+01	8.5018+01	-2.5908+00	2.8201+00
-4.4	2.6853+00	2.7862+01	3.0547+01	8.1333+01	-2.4118+00	2.6875+00
-4.2	2.5682+00	2.5725+01	2.8293+01	7.7987+01	-2.2311+00	2.5703+00
-4.0	2.4672+00	2.3880+01	2.6347+01	7.4983+01	-2.0486+00	2.4691+00
-3.8	2.3814+00	2.2314+01	2.4695+01	7.2301+01	-1.8639+00	2.3832+00
-3.6	2.3096+00	2.1003+01	2.3312+01	6.9910+01	-1.6772+00	2.3113+00
-3.4	2.2502+00	1.9917+01	2.2167+01	6.7775+01	-1.4886+00	2.2517+00
-3.2	2.2013+00	1.9025+01	2.1226+01	6.5859+01	-1.2981+00	2.2027+00
-3.0	2.1613+00	1.8296+01	2.0457+01	6.4125+01	-1.1060+00	2.1626+00
-2.8	2.1287+00	1.7702+01	1.9830+01	6.2544+01	-9.1266-01	2.1298+00
-2.6	2.1019+00	1.7217+01	1.9319+01	6.1085+01	-7.1815-01	2.1029+00
-2.4	2.0798+00	1.6820+01	1.8900+01	5.9725+01	-5.2274-01	2.0807+00
-2.2	2.0611+00	1.6490+01	1.8551+01	5.8442+01	-3.2667-01	2.0619+00
-2.0	2.0446+00	1.6207+01	1.8252+01	5.7214+01	-1.3015-01	2.0453+00
-1.8	2.0291+00	1.5953+01	1.7982+01	5.6022+01	6.6533-02	2.0297+00
-1.6	2.0131+00	1.5707+01	1.7721+01	5.4845+01	2.6309-01	2.0136+00
-1.4	1.9949+00	1.5447+01	1.7442+01	5.3662+01	4.5915-01	1.9953+00
-1.2	1.9724+00	1.5145+01	1.7117+01	5.2446+01	6.5424-01	1.9727+00
-1.0	1.9433+00	1.4771+01	1.6714+01	5.1170+01	8.4778-01	1.9435+00
-.8	1.9053+00	1.4296+01	1.6202+01	4.9809+01	1.0392+00	1.9052+00
-.6	1.8564+00	1.3698+01	1.5554+01	4.8344+01	1.2279+00	1.8560+00
-.4	1.7963+00	1.2969+01	1.4766+01	4.6774+01	1.4136+00	1.7956+00
-.2	1.7264+00	1.2126+01	1.3852+01	4.5119+01	1.5964+00	1.7251+00
.0	1.6499+00	1.1204+01	1.2854+01	4.3419+01	1.7767+00	1.6477+00
.2	1.5709+00	1.0250+01	1.1821+01	4.1724+01	1.9554+00	1.5676+00
.4	1.4936+00	9.3131+00	1.0807+01	4.0081+01	2.1335+00	1.4886+00
.6	1.4218+00	8.4306+00	9.8523+00	3.8528+01	2.3121+00	1.4142+00
.8	1.3578+00	7.6281+00	8.9859+00	3.7086+01	2.4921+00	1.3465+00
1.0	1.3036+00	6.9185+00	8.2221+00	3.5764+01	2.6744+00	1.2865+00
1.2	1.2605+00	6.3044+00	7.5649+00	3.4560+01	2.8598+00	1.2345+00
1.4	1.2297+00	5.7820+00	7.0116+00	3.3464+01	3.0490+00	1.1902+00
1.6	1.2132+00	5.3430+00	6.5562+00	3.2463+01	3.2432+00	1.1528+00
1.8	1.2143+00	4.9779+00	6.1922+00	3.1540+01	3.4436+00	1.1215+00
2.0	1.2386+00	4.6769+00	5.9155+00	3.0675+01	3.6522+00	1.0954+00
2.2	1.2955+00	4.4314+00	5.7269+00	2.9848+01	3.8717+00	1.0736+00

T= 10000

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.5400-12	1.2500-10	4.9700-01	3.4100-07	5.7600-03	4.9700-01
-6.8	9.8900-12	3.0900-10	4.9500-01	2.1600-07	9.0400-03	4.9500-01
-6.6	3.8000-11	7.5500-10	4.9300-01	1.3700-07	1.4100-02	4.9300-01
-6.4	1.4300-10	1.8200-09	4.8900-01	8.7100-08	2.1800-02	4.8900-01
-6.2	5.2500-10	4.3200-09	4.8300-01	5.5700-08	3.3400-02	4.8300-01
-6.0	1.8500-09	9.9700-09	4.7500-01	3.5700-08	5.0300-02	4.7500-01
-5.8	6.2300-09	2.2200-08	4.6300-01	2.3100-08	7.4000-02	4.6300-01
-5.6	1.9700-08	4.7200-08	4.4700-01	1.5000-08	1.0600-01	4.4700-01
-5.4	5.8100-08	9.5600-08	4.2600-01	9.8400-09	1.4700-01	4.2600-01
-5.2	1.5900-07	1.8300-07	4.0100-01	6.4900-09	1.9800-01	4.0100-01
-5.0	4.0400-07	3.3300-07	3.7200-01	4.3100-09	2.5700-01	3.7200-01
-4.8	9.5600-07	5.7400-07	3.3900-01	2.8600-09	3.2200-01	3.3900-01
-4.6	2.1200-06	9.4300-07	3.0500-01	1.9100-09	3.9000-01	3.0500-01
-4.4	4.4600-06	1.4800-06	2.7000-01	1.2700-09	4.6100-01	2.7000-01
-4.2	8.9200-06	2.2500-06	2.3500-01	8.3900-10	5.3000-01	2.3500-01
-4.0	1.7100-05	3.3100-06	2.0200-01	5.5400-10	5.9500-01	2.0200-01
-3.8	3.1700-05	4.7400-06	1.7200-01	3.6400-10	6.5600-01	1.7200-01
-3.6	5.7100-05	6.6200-06	1.4500-01	2.3800-10	7.1000-01	1.4500-01
-3.4	1.0000-04	9.0800-06	1.2100-01	1.5500-10	7.5900-01	1.2100-01
-3.2	1.7300-04	1.2300-05	9.9700-02	1.0100-10	8.0000-01	9.9700-02
-3.0	2.9300-04	1.6300-05	8.1800-02	6.5200-11	8.3600-01	8.1900-02
-2.8	4.9000-04	2.1500-05	6.6800-02	4.2100-11	8.6600-01	6.6800-02
-2.6	8.1100-04	2.8100-05	5.4300-02	2.7100-11	8.9100-01	5.4300-02
-2.4	1.3300-03	3.6500-05	4.3900-02	1.7400-11	9.1100-01	4.4000-02
-2.2	2.1600-03	4.7000-05	3.5400-02	1.1200-11	9.2700-01	3.5500-02
-2.0	3.4900-03	6.0200-05	2.8500-02	7.1800-12	9.3900-01	2.8600-02
-1.8	5.5900-03	7.6800-05	2.2900-02	4.6100-12	9.4800-01	2.3000-02
-1.6	8.9000-03	9.7400-05	1.8400-02	2.9600-12	9.5400-01	1.8500-02
-1.4	1.4000-02	1.2300-04	1.4700-02	1.9000-12	9.5600-01	1.4800-02
-1.2	2.1900-02	1.5300-04	1.1700-02	1.2300-12	9.5400-01	1.1900-02
-1.0	3.3800-02	1.9000-04	9.3600-03	7.9200-13	9.4700-01	9.5500-03
-.8	5.1000-02	2.3100-04	7.4400-03	5.1300-13	9.3400-01	7.6700-03
-.6	7.5400-02	2.7700-04	5.9000-03	3.3300-13	9.1200-01	6.1800-03
-.4	1.0800-01	3.2500-04	4.6600-03	2.1700-13	8.8200-01	4.9800-03
-.2	1.5000-01	3.7100-04	3.6500-03	1.4100-13	8.4200-01	4.0200-03
.0	2.0200-01	4.1700-04	2.8400-03	9.2100-14	7.9200-01	3.2500-03
.2	2.6100-01	4.4400-04	2.1900-03	5.9700-14	7.3300-01	2.6300-03
.4	3.2700-01	4.6500-04	1.6700-03	3.8400-14	6.6800-01	2.1300-03
.6	3.9700-01	4.7200-04	1.2500-03	2.4500-14	5.9900-01	1.7200-03
.8	4.6800-01	4.6800-04	9.2800-04	1.5400-14	5.2900-01	1.4000-03
1.0	5.3800-01	4.5200-04	6.7800-04	9.5800-15	4.6000-01	1.1300-03
1.2	6.0500-01	4.2800-04	4.8900-04	5.8700-15	3.9400-01	9.1800-04
1.4	6.6600-01	4.0000-04	3.4900-04	3.5400-15	3.3200-01	7.4800-04
1.6	7.2200-01	3.6900-04	2.4600-04	2.1100-15	2.7600-01	6.1500-04
1.8	7.7300-01	3.4000-04	1.7300-04	1.2400-15	2.2600-01	5.1300-04
2.0	8.1700-01	3.1600-04	1.2100-04	7.2200-16	1.8200-01	4.3700-04
2.2	8.5600-01	3.0000-04	8.5200-05	4.1700-16	1.4400-01	3.8600-04

T= 10000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9766+00	5.0939+01	5.4915+01	1.2592+02	-4.8369+00	3.9771+00
-6.8	3.9635+00	5.0705+01	5.4668+01	1.2386+02	-4.6383+00	3.9642+00
-6.6	3.9436+00	5.0346+01	5.4290+01	1.2168+02	-4.4405+00	3.9444+00
-6.4	3.9136+00	4.9807+01	5.3721+01	1.1933+02	-4.2438+00	3.9145+00
-6.2	3.8695+00	4.9015+01	5.2885+01	1.1675+02	-4.0487+00	3.8707+00
-6.0	3.8071+00	4.7892+01	5.1699+01	1.1386+02	-3.8558+00	3.8086+00
-5.8	3.7227+00	4.6370+01	5.0092+01	1.1060+02	-3.6655+00	3.7244+00
-5.6	3.6144+00	4.4419+01	4.8033+01	1.0696+02	-3.4784+00	3.6164+00
-5.4	3.4842+00	4.2069+01	4.5553+01	1.0297+02	-3.2943+00	3.4863+00
-5.2	3.3371+00	3.9414+01	4.2752+01	9.8748+01	-3.1130+00	3.3394+00
-5.0	3.1810+00	3.6597+01	3.9778+01	9.4430+01	-2.9338+00	3.1834+00
-4.8	3.0243+00	3.3768+01	3.6792+01	9.0172+01	-2.7558+00	3.0268+00
-4.6	2.8743+00	3.1057+01	3.3932+01	8.6103+01	-2.5779+00	2.8767+00
-4.4	2.7361+00	2.8561+01	3.1297+01	8.2315+01	-2.3993+00	2.7385+00
-4.2	2.6127+00	2.6332+01	2.8944+01	7.8855+01	-2.2193+00	2.6150+00
-4.0	2.5054+00	2.4390+01	2.6896+01	7.5736+01	-2.0375+00	2.5075+00
-3.8	2.4137+00	2.2732+01	2.5146+01	7.2946+01	-1.8537+00	2.4157+00
-3.6	2.3365+00	2.1337+01	2.3673+01	7.0457+01	-1.6678+00	2.3384+00
-3.4	2.2724+00	2.0177+01	2.2449+01	6.8236+01	-1.4799+00	2.2741+00
-3.2	2.2195+00	1.9221+01	2.1440+01	6.6246+01	-1.2901+00	2.2211+00
-3.0	2.1762+00	1.8438+01	2.0614+01	6.4452+01	-1.0987+00	2.1776+00
-2.8	2.1408+00	1.7799+01	1.9940+01	6.2819+01	-9.0583-01	2.1421+00
-2.6	2.1118+00	1.7278+01	1.9390+01	6.1320+01	-7.1174-01	2.1130+00
-2.4	2.0880+00	1.6852+01	1.8940+01	5.9927+01	-5.1668-01	2.0890+00
-2.2	2.0679+00	1.6500+01	1.8568+01	5.8617+01	-3.2087-01	2.0688+00
-2.0	2.0505+00	1.6201+01	1.8252+01	5.7371+01	-1.2453-01	2.0513+00
-1.8	2.0345+00	1.5937+01	1.7972+01	5.6166+01	7.2061-02	2.0352+00
-1.6	2.0185+00	1.5689+01	1.7707+01	5.4984+01	2.6863-01	2.0191+00
-1.4	2.0008+00	1.5432+01	1.7433+01	5.3802+01	4.6480-01	2.0013+00
-1.2	1.9795+00	1.5143+01	1.7122+01	5.2596+01	6.6015-01	1.9798+00
-1.0	1.9522+00	1.4791+01	1.6743+01	5.1338+01	8.5412-01	1.9524+00
-.8	1.9165+00	1.4346+01	1.6262+01	5.0003+01	1.0461+00	1.9165+00
-.6	1.8704+00	1.3784+01	1.5654+01	4.8568+01	1.2355+00	1.8701+00
-.4	1.8131+00	1.3093+01	1.4906+01	4.7028+01	1.4220+00	1.8124+00
-.2	1.7454+00	1.2282+01	1.4028+01	4.5398+01	1.6055+00	1.7441+00
.0	1.6702+00	1.1383+01	1.3053+01	4.3712+01	1.7864+00	1.6681+00
.2	1.5915+00	1.0440+01	1.2032+01	4.2018+01	1.9654+00	1.5882+00
.4	1.5136+00	9.5027+00	1.1016+01	4.0366+01	2.1436+00	1.5085+00
.6	1.4403+00	8.6105+00	1.0051+01	3.8794+01	2.3220+00	1.4326+00
.8	1.3745+00	7.7926+00	9.1670+00	3.7328+01	2.5017+00	1.3630+00
1.0	1.3182+00	7.0644+00	8.3826+00	3.5980+01	2.6836+00	1.3009+00
1.2	1.2730+00	6.4311+00	7.7041+00	3.4751+01	2.8684+00	1.2468+00
1.4	1.2403+00	5.8899+00	7.1302+00	3.3631+01	3.0571+00	1.2005+00
1.6	1.2221+00	5.4337+00	6.6558+00	3.2609+01	3.2507+00	1.1613+00
1.8	1.2216+00	5.0532+00	6.2749+00	3.1666+01	3.4505+00	1.1284+00
2.0	1.2446+00	4.7387+00	5.9834+00	3.0785+01	3.6586+00	1.1009+00
2.2	1.3004+00	4.4816+00	5.7820+00	2.9943+01	3.8777+00	1.0779+00

T= 10100

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.5900-12	9.5300-11	4.9800-01	4.8500-07	4.8300-03	4.9800-01
-6.8	6.2200-12	2.3600-10	4.9600-01	3.0700-07	7.5900-03	4.9600-01
-6.6	2.4000-11	5.8000-10	4.9400-01	1.9500-07	1.1900-02	4.9400-01
-6.4	9.1300-11	1.4100-09	4.9100-01	1.2400-07	1.8400-02	4.9100-01
-6.2	3.3900-10	3.3700-09	4.8600-01	7.8900-08	2.8400-02	4.8600-01
-6.0	1.2200-09	7.8600-09	4.7900-01	5.0500-08	4.3000-02	4.7900-01
-5.8	4.1700-09	1.7700-08	4.6800-01	3.2500-08	6.3900-02	4.6800-01
-5.6	1.3500-08	3.8500-08	4.5400-01	2.1100-08	9.2600-02	4.5400-01
-5.4	4.1000-08	7.9500-08	4.3500-01	1.3800-08	1.3000-01	4.3500-01
-5.2	1.1500-07	1.5600-07	4.1100-01	9.0900-09	1.7700-01	4.1100-01
-5.0	3.0200-07	2.8900-07	3.8400-01	6.0200-09	2.3300-01	3.8400-01
-4.8	7.3400-07	5.0700-07	3.5200-01	4.0000-09	2.9600-01	3.5200-01
-4.6	1.6700-06	8.4900-07	3.1800-01	2.6600-09	3.6300-01	3.1800-01
-4.4	3.5800-06	1.3600-06	2.8300-01	1.7700-09	4.3300-01	2.8300-01
-4.2	7.2900-06	2.0900-06	2.4800-01	1.1700-09	5.0300-01	2.4800-01
-4.0	1.4200-05	3.1100-06	2.1500-01	7.7700-10	5.7000-01	2.1500-01
-3.8	2.6700-05	4.4900-06	1.8400-01	5.1200-10	6.3300-01	1.8400-01
-3.6	4.8500-05	6.3300-06	1.5500-01	3.3500-10	6.9000-01	1.5500-01
-3.4	8.6100-05	8.7500-06	1.3000-01	2.1900-10	7.4100-01	1.3000-01
-3.2	1.4900-04	1.1900-05	1.0800-01	1.4200-10	7.8500-01	1.0800-01
-3.0	2.5500-04	1.5900-05	8.8500-02	9.2300-11	8.2300-01	8.8500-02
-2.8	4.2800-04	2.1100-05	7.2400-02	5.9600-11	8.5500-01	7.2400-02
-2.6	7.1100-04	2.7600-05	5.8900-02	3.8400-11	8.8100-01	5.8900-02
-2.4	1.1700-03	3.5900-05	4.7800-02	2.4700-11	9.0300-01	4.7800-02
-2.2	1.9100-03	4.6400-05	3.8600-02	1.5900-11	9.2100-01	3.8600-02
-2.0	3.0800-03	5.9500-05	3.1100-02	1.0200-11	9.3500-01	3.1100-02
-1.8	4.9500-03	7.6100-05	2.5000-02	6.5700-12	9.4500-01	2.5100-02
-1.6	7.9000-03	9.6600-05	2.0000-02	4.2200-12	9.5200-01	2.0100-02
-1.4	1.2500-02	1.2200-04	1.6000-02	2.7200-12	9.5500-01	1.6200-02
-1.2	1.9600-02	1.5300-04	1.2800-02	1.7500-12	9.5400-01	1.3000-02
-1.0	3.0300-02	1.9000-04	1.0200-02	1.1300-12	9.4900-01	1.0400-02
-.8	4.6000-02	2.3300-04	8.1500-03	7.3300-13	9.3700-01	8.3900-03
-.6	6.8400-02	2.8000-04	6.4700-03	4.7600-13	9.1800-01	6.7500-03
-.4	9.9000-02	3.3000-04	5.1200-03	3.1000-13	8.9000-01	5.4500-03
-.2	1.3900-01	3.8000-04	4.0200-03	2.0200-13	8.5200-01	4.4000-03
.0	1.8800-01	4.2500-04	3.1400-03	1.3200-13	8.0500-01	3.5600-03
.2	2.4600-01	4.6200-04	2.4200-03	8.5700-14	7.4800-01	2.8800-03
.4	3.1000-01	4.8700-04	1.8500-03	5.5400-14	6.8500-01	2.3400-03
.6	3.8000-01	4.9800-04	1.3900-03	3.5400-14	6.1700-01	1.8900-03
.8	4.5100-01	4.9700-04	1.0400-03	2.2400-14	5.4600-01	1.5300-03
1.0	5.2100-01	4.8400-04	7.6100-04	1.4000-14	4.7700-01	1.2400-03
1.2	5.8900-01	4.6100-04	5.5100-04	8.6200-15	4.0900-01	1.0100-03
1.4	6.5200-01	4.3200-04	3.9400-04	5.2300-15	3.4700-01	8.2700-04
1.6	7.1000-01	4.0100-04	2.8000-04	3.1400-15	2.8900-01	6.8100-04
1.8	7.6100-01	3.7200-04	1.9700-04	1.8600-15	2.3700-01	5.6800-04
2.0	8.0700-01	3.4700-04	1.3800-04	1.0900-15	1.9200-01	4.8500-04
2.2	8.4800-01	3.3100-04	9.7700-05	6.3400-16	1.5100-01	4.2900-04

T= 10100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9803+00	5.0566+01	5.4546+01	1.2606+02	-4.8322+00	3.9808+00
-6.8	3.9692+00	5.0370+01	5.4339+01	1.2403+02	-4.6334+00	3.9699+00
-6.6	3.9523+00	5.0069+01	5.4021+01	1.2190+02	-4.4352+00	3.9531+00
-6.4	3.9266+00	4.9612+01	5.3539+01	1.1963+02	-4.2381+00	3.9276+00
-6.2	3.8885+00	4.8934+01	5.2822+01	1.1715+02	-4.0423+00	3.8897+00
-6.0	3.8337+00	4.7958+01	5.1792+01	1.1440+02	-3.8485+00	3.8352+00
-5.8	3.7582+00	4.6610+01	5.0368+01	1.1130+02	-3.6571+00	3.7599+00
-5.6	3.6592+00	4.4843+01	4.8502+01	1.0783+02	-3.4687+00	3.6612+00
-5.4	3.5370+00	4.2661+01	4.6198+01	1.0399+02	-3.2834+00	3.5392+00
-5.2	3.3957+00	4.0135+01	4.3531+01	9.9865+01	-3.1012+00	3.3981+00
-5.0	3.2421+00	3.7390+01	4.0632+01	9.5591+01	-2.9213+00	3.2446+00
-4.8	3.0847+00	3.4576+01	3.7660+01	9.1320+01	-2.7429+00	3.0873+00
-4.6	2.9313+00	3.1832+01	3.4764+01	8.7191+01	-2.5650+00	2.9340+00
-4.4	2.7881+00	2.9269+01	3.2057+01	8.3312+01	-2.3868+00	2.7907+00
-4.2	2.6588+00	2.6955+01	2.9614+01	7.9743+01	-2.2074+00	2.6613+00
-4.0	2.5452+00	2.4921+01	2.7466+01	7.6512+01	-2.0264+00	2.5476+00
-3.8	2.4475+00	2.3171+01	2.5618+01	7.3613+01	-1.8434+00	2.4497+00
-3.6	2.3649+00	2.1691+01	2.4055+01	7.1025+01	-1.6583+00	2.3669+00
-3.4	2.2959+00	2.0455+01	2.2750+01	6.8716+01	-1.4711+00	2.2978+00
-3.2	2.2388+00	1.9433+01	2.1671+01	6.6651+01	-1.2821+00	2.2406+00
-3.0	2.1920+00	1.8594+01	2.0786+01	6.4792+01	-1.0912+00	2.1936+00
-2.8	2.1537+00	1.7908+01	2.0062+01	6.3106+01	-8.9890-01	2.1551+00
-2.6	2.1223+00	1.7349+01	1.9472+01	6.1563+01	-7.0526-01	2.1236+00
-2.4	2.0966+00	1.6893+01	1.8989+01	6.0135+01	-5.1057-01	2.0977+00
-2.2	2.0751+00	1.6516+01	1.8592+01	5.8798+01	-3.1504-01	2.0761+00
-2.0	2.0567+00	1.6200+01	1.8257+01	5.7531+01	-1.1891-01	2.0576+00
-1.8	2.0401+00	1.5925+01	1.7965+01	5.6313+01	7.7565-02	2.0409+00
-1.6	2.0239+00	1.5671+01	1.7695+01	5.5123+01	2.7411-01	2.0246+00
-1.4	2.0065+00	1.5417+01	1.7424+01	5.3940+01	4.7037-01	2.0071+00
-1.2	1.9861+00	1.5137+01	1.7123+01	5.2741+01	6.6593-01	1.9866+00
-1.0	1.9604+00	1.4804+01	1.6764+01	5.1499+01	8.6027-01	1.9607+00
-.8	1.9270+00	1.4387+01	1.6314+01	5.0186+01	1.0528+00	1.9270+00
-.6	1.8836+00	1.3859+01	1.5743+01	4.8781+01	1.2429+00	1.8833+00
-.4	1.8290+00	1.3205+01	1.5034+01	4.7271+01	1.4301+00	1.8283+00
-.2	1.7638+00	1.2428+01	1.4191+01	4.5667+01	1.6144+00	1.7625+00
.0	1.6901+00	1.1554+01	1.3244+01	4.3997+01	1.7958+00	1.6880+00
.2	1.6119+00	1.0625+01	1.2237+01	4.2308+01	1.9753+00	1.6086+00
.4	1.5336+00	9.6893+00	1.1223+01	4.0648+01	2.1536+00	1.5284+00
.6	1.4590+00	8.7897+00	1.0249+01	3.9060+01	2.3320+00	1.4512+00
.8	1.3914+00	7.9578+00	9.3492+00	3.7572+01	2.5114+00	1.3798+00
1.0	1.3331+00	7.2121+00	8.5452+00	3.6199+01	2.6928+00	1.3156+00
1.2	1.2859+00	6.5599+00	7.8458+00	3.4944+01	2.8771+00	1.2594+00
1.4	1.2512+00	6.0001+00	7.2513+00	3.3801+01	3.0653+00	1.2111+00
1.6	1.2312+00	5.5266+00	6.7579+00	3.2756+01	3.2583+00	1.1701+00
1.8	1.2293+00	5.1305+00	6.3598+00	3.1794+01	3.4576+00	1.1356+00
2.0	1.2509+00	4.8023+00	6.0532+00	3.0896+01	3.6652+00	1.1066+00
2.2	1.3055+00	4.5333+00	5.8388+00	3.0040+01	3.8837+00	1.0824+00

T= 10200

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0100-12	7.3200-11	4.9800-01	6.8600-07	4.0600-03	4.9800-01
-6.8	3.9400-12	1.8200-10	4.9700-01	4.3400-07	6.3900-03	4.9700-01
-6.6	1.5300-11	4.4800-10	4.9500-01	2.7500-07	1.0000-02	4.9500-01
-6.4	5.8500-11	1.0900-09	4.9200-01	1.7500-07	1.5600-02	4.9200-01
-6.2	2.1900-10	2.6300-09	4.8800-01	1.1100-07	2.4100-02	4.8800-01
-6.0	7.9800-10	6.2000-09	4.8200-01	7.1000-08	3.6800-02	4.8200-01
-5.8	2.7900-09	1.4200-08	4.7200-01	4.5700-08	5.5100-02	4.7200-01
-5.6	9.2500-09	3.1300-08	4.6000-01	2.9600-08	8.0600-02	4.6000-01
-5.4	2.8800-08	6.5900-08	4.4300-01	1.9300-08	1.1500-01	4.4300-01
-5.2	8.3500-08	1.3200-07	4.2100-01	1.2700-08	1.5800-01	4.2100-01
-5.0	2.2400-07	2.4900-07	3.9500-01	8.3600-09	2.1100-01	3.9500-01
-4.8	5.6100-07	4.4700-07	3.6500-01	5.5500-09	2.7100-01	3.6500-01
-4.6	1.3100-06	7.6200-07	3.3100-01	3.6900-09	3.3700-01	3.3100-01
-4.4	2.8600-06	1.2400-06	2.9700-01	2.4600-09	4.0600-01	2.9700-01
-4.2	5.9400-06	1.9400-06	2.6200-01	1.6300-09	4.7700-01	2.6200-01
-4.0	1.1800-05	2.9200-06	2.2800-01	1.0800-09	5.4500-01	2.2800-01
-3.8	2.2400-05	4.2600-06	1.9500-01	7.1400-10	6.0900-01	1.9500-01
-3.6	4.1200-05	6.0600-06	1.6600-01	4.6900-10	6.6900-01	1.6600-01
-3.4	7.3800-05	8.4300-06	1.3900-01	3.0700-10	7.2200-01	1.3900-01
-3.2	1.2900-04	1.1500-05	1.1600-01	2.0000-10	7.6900-01	1.1600-01
-3.0	2.2100-04	1.5500-05	9.5500-02	1.3000-10	8.0900-01	9.5500-02
-2.8	3.7400-04	2.0600-05	7.8300-02	8.4000-11	8.4300-01	7.8300-02
-2.6	6.2400-04	2.7100-05	6.3800-02	5.4200-11	8.7200-01	6.3900-02
-2.4	1.0300-03	3.5300-05	5.1800-02	3.4900-11	8.9500-01	5.1900-02
-2.2	1.6800-03	4.5800-05	4.1900-02	2.2500-11	9.1400-01	4.2000-02
-2.0	2.7300-03	5.8900-05	3.3800-02	1.4500-11	9.3000-01	3.3900-02
-1.8	4.4000-03	7.5400-05	2.7200-02	9.2900-12	9.4100-01	2.7300-02
-1.6	7.0400-03	9.6000-05	2.1800-02	5.9800-12	9.4900-01	2.1900-02
-1.4	1.1200-02	1.2100-04	1.7500-02	3.8500-12	9.5400-01	1.7600-02
-1.2	1.7500-02	1.5300-04	1.4000-02	2.4800-12	9.5400-01	1.4200-02
-1.0	2.7200-02	1.9000-04	1.1200-02	1.6000-12	9.5000-01	1.1400-02
-.8	4.1600-02	2.3400-04	8.9200-03	1.0400-12	9.4000-01	9.1500-03
-.6	6.2200-02	2.8300-04	7.0800-03	6.7600-13	9.2300-01	7.3700-03
-.4	9.0600-02	3.3600-04	5.6100-03	4.4000-13	8.9800-01	5.9400-03
-.2	1.2800-01	3.8900-04	4.4200-03	2.8800-13	8.6200-01	4.8000-03
.0	1.7500-01	4.3800-04	3.4500-03	1.8800-13	8.1700-01	3.8900-03
.2	2.3100-01	4.7900-04	2.6700-03	1.2200-13	7.6300-01	3.1500-03
.4	2.9400-01	5.0900-04	2.0500-03	7.9200-14	7.0100-01	2.5600-03
.6	3.6200-01	5.2500-04	1.5500-03	5.0900-14	6.3400-01	2.0700-03
.8	4.3300-01	5.2700-04	1.1600-03	3.2300-14	5.6400-01	1.6800-03
1.0	5.0400-01	5.1700-04	8.5200-04	2.0300-14	4.9300-01	1.3700-03
1.2	5.7300-01	4.9500-04	6.1900-04	1.2600-14	4.2500-01	1.1100-03
1.4	6.3700-01	4.6700-04	4.4500-04	7.6700-15	3.6100-01	9.1200-04
1.6	6.9700-01	4.3600-04	3.1600-04	4.6300-15	3.0200-01	7.5200-04
1.8	7.5000-01	4.0500-04	2.2300-04	2.7600-15	2.4900-01	6.2900-04
2.0	7.9800-01	3.8000-04	1.5800-04	1.6300-15	2.0100-01	5.3800-04
2.2	8.4000-01	3.6500-04	1.1200-04	9.5800-16	1.5900-01	4.7600-04

T= 10200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9833+00	5.0189+01	5.4172+01	1.2618+02	-4.8276+00	3.9838+00
-6.8	3.9740+00	5.0025+01	5.3999+01	1.2418+02	-4.6286+00	3.9746+00
-6.6	3.9595+00	4.9771+01	5.3731+01	1.2210+02	-4.4302+00	3.9603+00
-6.4	3.9376+00	4.9384+01	5.3322+01	1.1989+02	-4.2326+00	3.9385+00
-6.2	3.9047+00	4.8805+01	5.2709+01	1.1751+02	-4.0362+00	3.9059+00
-6.0	3.8568+00	4.7960+01	5.1817+01	1.1487+02	-3.8416+00	3.8582+00
-5.8	3.7895+00	4.6773+01	5.0562+01	1.1193+02	-3.6492+00	3.7913+00
-5.6	3.6996+00	4.5184+01	4.8884+01	1.0861+02	-3.4596+00	3.7017+00
-5.4	3.5861+00	4.3175+01	4.6761+01	1.0492+02	-3.2732+00	3.5884+00
-5.2	3.4513+00	4.0791+01	4.4243+01	1.0092+02	-3.0898+00	3.4539+00
-5.0	3.3015+00	3.8138+01	4.1440+01	9.6711+01	-2.9091+00	3.3042+00
-4.8	3.1446+00	3.5359+01	3.8504+01	9.2448+01	-2.7302+00	3.1474+00
-4.6	2.9889+00	3.2601+01	3.5590+01	8.8277+01	-2.5523+00	2.9917+00
-4.4	2.8412+00	2.9984+01	3.2825+01	8.4318+01	-2.3743+00	2.8440+00
-4.2	2.7063+00	2.7592+01	3.0299+01	8.0650+01	-2.1954+00	2.7090+00
-4.0	2.5866+00	2.5470+01	2.8056+01	7.7309+01	-2.0151+00	2.5892+00
-3.8	2.4829+00	2.3630+01	2.6113+01	7.4303+01	-1.8328+00	2.4854+00
-3.6	2.3947+00	2.2064+01	2.4459+01	7.1615+01	-1.6485+00	2.3970+00
-3.4	2.3207+00	2.0751+01	2.3072+01	6.9216+01	-1.4622+00	2.3228+00
-3.2	2.2593+00	1.9661+01	2.1921+01	6.7072+01	-1.2738+00	2.2612+00
-3.0	2.2088+00	1.8764+01	2.0973+01	6.5147+01	-1.0837+00	2.2105+00
-2.8	2.1674+00	1.8030+01	2.0198+01	6.3405+01	-8.9187-01	2.1690+00
-2.6	2.1335+00	1.7432+01	1.9565+01	6.1816+01	-6.9871-01	2.1349+00
-2.4	2.1057+00	1.6942+01	1.9048+01	6.0352+01	-5.0440-01	2.1070+00
-2.2	2.0827+00	1.6541+01	1.8623+01	5.8985+01	-3.0918-01	2.0838+00
-2.0	2.0631+00	1.6205+01	1.8269+01	5.7696+01	-1.1328-01	2.0641+00
-1.8	2.0458+00	1.5917+01	1.7963+01	5.6461+01	8.3053-02	2.0467+00
-1.6	2.0293+00	1.5656+01	1.7686+01	5.5262+01	2.7954-01	2.0301+00
-1.4	2.0121+00	1.5402+01	1.7414+01	5.4077+01	4.7585-01	2.0128+00
-1.2	1.9925+00	1.5129+01	1.7122+01	5.2882+01	6.7159-01	1.9930+00
-1.0	1.9681+00	1.4812+01	1.6780+01	5.1653+01	8.6625-01	1.9684+00
-.8	1.9367+00	1.4419+01	1.6356+01	5.0360+01	1.0593+00	1.9368+00
-.6	1.8958+00	1.3923+01	1.5819+01	4.8981+01	1.2500+00	1.8956+00
-.4	1.8440+00	1.3304+01	1.5148+01	4.7501+01	1.4380+00	1.8433+00
-.2	1.7812+00	1.2561+01	1.4342+01	4.5923+01	1.6229+00	1.7799+00
.0	1.7093+00	1.1714+01	1.3423+01	4.4272+01	1.8050+00	1.7072+00
.2	1.6319+00	1.0801+01	1.2433+01	4.2590+01	1.9849+00	1.6286+00
.4	1.5533+00	9.8705+00	1.1424+01	4.0926+01	2.1635+00	1.5481+00
.6	1.4777+00	8.9659+00	1.0444+01	3.9323+01	2.3418+00	1.4698+00
.8	1.4084+00	8.1217+00	9.5302+00	3.7815+01	2.5209+00	1.3967+00
1.0	1.3483+00	7.3596+00	8.7079+00	3.6418+01	2.7020+00	1.3306+00
1.2	1.2990+00	6.6893+00	7.9883+00	3.5139+01	2.8858+00	1.2723+00
1.4	1.2624+00	6.1113+00	7.3737+00	3.3972+01	3.0734+00	1.2220+00
1.6	1.2407+00	5.6207+00	6.8613+00	3.2905+01	3.2659+00	1.1791+00
1.8	1.2371+00	5.2090+00	6.4461+00	3.1924+01	3.4646+00	1.1429+00
2.0	1.2574+00	4.8670+00	6.1244+00	3.1008+01	3.6717+00	1.1125+00
2.2	1.3108+00	4.5859+00	5.8967+00	3.0137+01	3.8897+00	1.0870+00

T= 10300

LOG D	N2	N2+	N+	N++	N	E
-7.0	6.4100-13	5.6400-11	4.9800-01	9.6300-07	3.4300-03	4.9800-01
-6.8	2.5200-12	1.4000-10	4.9700-01	6.0900-07	5.4000-03	4.9700-01
-6.6	9.8000-12	3.4700-10	4.9600-01	3.8600-07	8.4800-03	4.9600-01
-6.4	3.7700-11	8.5000-10	4.9300-01	2.4500-07	1.3200-02	4.9300-01
-6.2	1.4300-10	2.0600-09	4.9000-01	1.5600-07	2.0500-02	4.9000-01
-6.0	5.2500-10	4.8900-09	4.8400-01	9.9300-08	3.1500-02	4.8400-01
-5.8	1.8700-09	1.1300-08	4.7600-01	6.3700-08	4.7500-02	4.7600-01
-5.6	6.3200-09	2.5300-08	4.6500-01	4.1100-08	7.0100-02	4.6500-01
-5.4	2.0200-08	5.4300-08	4.5000-01	2.6700-08	1.0100-01	4.5000-01
-5.2	6.0000-08	1.1100-07	4.3000-01	1.7500-08	1.4100-01	4.3000-01
-5.0	1.6600-07	2.1400-07	4.0500-01	1.1500-08	1.9000-01	4.0500-01
-4.8	4.2600-07	3.9200-07	3.7600-01	7.6600-09	2.4800-01	3.7600-01
-4.6	1.0200-06	6.8000-07	3.4400-01	5.0900-09	3.1200-01	3.4400-01
-4.4	2.2800-06	1.1300-06	3.1000-01	3.3900-09	3.8000-01	3.1000-01
-4.2	4.8300-06	1.7800-06	2.7500-01	2.2600-09	4.5000-01	2.7500-01
-4.0	9.7300-06	2.7200-06	2.4000-01	1.5000-09	5.2000-01	2.4000-01
-3.8	1.8800-05	4.0200-06	2.0700-01	9.8900-10	5.8600-01	2.0700-01
-3.6	3.5000-05	5.7700-06	1.7600-01	6.5100-10	6.4700-01	1.7600-01
-3.4	6.3200-05	8.0900-06	1.4900-01	4.2700-10	7.0300-01	1.4900-01
-3.2	1.1100-04	1.1100-05	1.2400-01	2.7900-10	7.5200-01	1.2400-01
-3.0	1.9300-04	1.5100-05	1.0300-01	1.8100-10	7.9400-01	1.0300-01
-2.8	3.2700-04	2.0100-05	8.4400-02	1.1700-10	8.3100-01	8.4400-02
-2.6	5.4800-04	2.6500-05	6.9000-02	7.5900-11	8.6100-01	6.9000-02
-2.4	9.0700-04	3.4700-05	5.6100-02	4.9000-11	8.8700-01	5.6100-02
-2.2	1.4900-03	4.5100-05	4.5500-02	3.1500-11	9.0800-01	4.5500-02
-2.0	2.4200-03	5.8200-05	3.6700-02	2.0300-11	9.2400-01	3.6800-02
-1.8	3.9100-03	7.4600-05	2.9600-02	1.3100-11	9.3700-01	2.9600-02
-1.6	6.2700-03	9.5100-05	2.3800-02	8.4100-12	9.4600-01	2.3800-02
-1.4	9.9700-03	1.2100-04	1.9100-02	5.4200-12	9.5200-01	1.9200-02
-1.2	1.5700-02	1.5200-04	1.5300-02	3.5000-12	9.5300-01	1.5400-02
-1.0	2.4500-02	1.9000-04	1.2200-02	2.2600-12	9.5100-01	1.2400-02
-.8	3.7500-02	2.3400-04	9.7300-03	1.4700-12	9.4300-01	9.9600-03
-.6	5.6500-02	2.8500-04	7.7400-03	9.5300-13	9.2700-01	8.0200-03
-.4	8.2800-02	3.4000-04	6.1400-03	6.2100-13	9.0400-01	6.4800-03
-.2	1.1800-01	3.9600-04	4.8400-03	4.0600-13	8.7100-01	5.2300-03
.0	1.6300-01	4.5000-04	3.7900-03	2.6600-13	8.2900-01	4.2400-03
.2	2.1600-01	4.9600-04	2.9400-03	1.7300-13	7.7700-01	3.4400-03
.4	2.7800-01	5.3100-04	2.2600-03	1.1300-13	7.1600-01	2.7900-03
.6	3.4500-01	5.5100-04	1.7200-03	7.2600-14	6.5000-01	2.2700-03
.8	4.1600-01	5.5800-04	1.2900-03	4.6300-14	5.8000-01	1.8400-03
1.0	4.8700-01	5.5000-04	9.5100-04	2.9200-14	5.1000-01	1.5000-03
1.2	5.5700-01	5.3100-04	6.9400-04	1.8200-14	4.4100-01	1.2200-03
1.4	6.2200-01	5.0300-04	5.0000-04	1.1200-14	3.7600-01	1.0000-03
1.6	6.8300-01	4.7200-04	3.5700-04	6.7800-15	3.1500-01	8.2900-04
1.8	7.3900-01	4.4100-04	2.5300-04	4.0700-15	2.6000-01	6.9400-04
2.0	7.8800-01	4.1600-04	1.7900-04	2.4200-15	2.1100-01	5.9500-04
2.2	8.3200-01	4.0100-04	1.2700-04	1.4400-15	1.6700-01	5.2800-04



T= 10300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9859+00	4.9810+01	5.3796+01	1.2628+02	-4.8230+00	3.9864+00
-6.8	3.9779+00	4.9672+01	5.3650+01	1.2431+02	-4.6239+00	3.9785+00
-6.6	3.9656+00	4.9459+01	5.3424+01	1.2227+02	-4.4253+00	3.9664+00
-6.4	3.9468+00	4.9131+01	5.3078+01	1.2012+02	-4.2273+00	3.9478+00
-6.2	3.9184+00	4.8636+01	5.2554+01	1.1781+02	-4.0305+00	3.9196+00
-6.0	3.8766+00	4.7906+01	5.1782+01	1.1529+02	-3.8351+00	3.8781+00
-5.8	3.8171+00	4.6865+01	5.0682+01	1.1248+02	-3.6418+00	3.8188+00
-5.6	3.7359+00	4.5445+01	4.9181+01	1.0932+02	-3.4512+00	3.7380+00
-5.4	3.6311+00	4.3609+01	4.7240+01	1.0578+02	-3.2635+00	3.6334+00
-5.2	3.5037+00	4.1377+01	4.4881+01	1.0191+02	-3.0790+00	3.5064+00
-5.0	3.3587+00	3.8834+01	4.2193+01	9.7782+01	-2.8974+00	3.3615+00
-4.8	3.2034+00	3.6111+01	3.9314+01	9.3548+01	-2.7179+00	3.2064+00
-4.6	3.0464+00	3.3355+01	3.6401+01	8.9353+01	-2.5398+00	3.0494+00
-4.4	2.8951+00	3.0699+01	3.3594+01	8.5329+01	-2.3619+00	2.8981+00
-4.2	2.7550+00	2.8239+01	3.0994+01	8.1569+01	-2.1834+00	2.7580+00
-4.0	2.6295+00	2.6034+01	2.8664+01	7.8125+01	-2.0037+00	2.6323+00
-3.8	2.5198+00	2.4107+01	2.6627+01	7.5012+01	-1.8222+00	2.5225+00
-3.6	2.4260+00	2.2457+01	2.4883+01	7.2224+01	-1.6387+00	2.4285+00
-3.4	2.3468+00	2.1065+01	2.3412+01	6.9734+01	-1.4531+00	2.3492+00
-3.2	2.2809+00	1.9906+01	2.2187+01	6.7510+01	-1.2655+00	2.2831+00
-3.0	2.2265+00	1.8949+01	2.1176+01	6.5516+01	-1.0759+00	2.2285+00
-2.8	2.1819+00	1.8165+01	2.0347+01	6.3716+01	-8.8474-01	2.1836+00
-2.6	2.1453+00	1.7524+01	1.9669+01	6.2080+01	-6.9207-01	2.1469+00
-2.4	2.1154+00	1.7001+01	1.9116+01	6.0576+01	-4.9817-01	2.1169+00
-2.2	2.0907+00	1.6572+01	1.8663+01	5.9178+01	-3.0328-01	2.0920+00
-2.0	2.0698+00	1.6216+01	1.8286+01	5.7865+01	-1.0763-01	2.0710+00
-1.8	2.0516+00	1.5913+01	1.7965+01	5.6613+01	8.8534-02	2.0526+00
-1.6	2.0347+00	1.5644+01	1.7679+01	5.5402+01	2.8494-01	2.0356+00
-1.4	2.0176+00	1.5387+01	1.7405+01	5.4213+01	4.8127-01	2.0183+00
-1.2	1.9985+00	1.5120+01	1.7118+01	5.3020+01	6.7715-01	1.9991+00
-1.0	1.9754+00	1.4815+01	1.6791+01	5.1801+01	8.7208-01	1.9758+00
-.8	1.9457+00	1.4444+01	1.6390+01	5.0527+01	1.0655+00	1.9459+00
-.6	1.9073+00	1.3978+01	1.5885+01	4.9172+01	1.2568+00	1.9071+00
-.4	1.8581+00	1.3393+01	1.5251+01	4.7720+01	1.4455+00	1.8575+00
-.2	1.7978+00	1.2684+01	1.4482+01	4.6169+01	1.6312+00	1.7966+00
.0	1.7279+00	1.1865+01	1.3593+01	4.4538+01	1.8140+00	1.7258+00
.2	1.6515+00	1.0971+01	1.2623+01	4.2866+01	1.9943+00	1.6482+00
.4	1.5729+00	1.0048+01	1.1621+01	4.1200+01	2.1731+00	1.5677+00
.6	1.4964+00	9.1403+00	1.0637+01	3.9586+01	2.3515+00	1.4885+00
.8	1.4257+00	8.2857+00	9.7114+00	3.8059+01	2.5305+00	1.4138+00
1.0	1.3637+00	7.5083+00	8.8720+00	3.6639+01	2.7111+00	1.3458+00
1.2	1.3124+00	6.8204+00	8.1328+00	3.5336+01	2.8945+00	1.2855+00
1.4	1.2739+00	6.2245+00	7.4984+00	3.4145+01	3.0816+00	1.2332+00
1.6	1.2504+00	5.7167+00	6.9671+00	3.3056+01	3.2735+00	1.1884+00
1.8	1.2453+00	5.2893+00	6.5346+00	3.2055+01	3.4717+00	1.1505+00
2.0	1.2642+00	4.9333+00	6.1974+00	3.1122+01	3.6782+00	1.1186+00
2.2	1.3163+00	4.6400+00	5.9563+00	3.0236+01	3.8958+00	1.0918+00

T= 10400

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.1200-13	4.3700-11	4.9900-01	1.3400-06	2.9000-03	4.9900-01
-6.8	1.6200-12	1.0900-10	4.9800-01	8.5000-07	4.5700-03	4.9800-01
-6.6	6.3300-12	2.7000-10	4.9600-01	5.3800-07	7.1900-03	4.9600-01
-6.4	2.4500-11	6.6300-10	4.9400-01	3.4100-07	1.1300-02	4.9400-01
-6.2	9.3100-11	1.6100-09	4.9100-01	2.1700-07	1.7500-02	4.9100-01
-6.0	3.4700-10	3.8700-09	4.8700-01	1.3800-07	2.6900-02	4.8700-01
-5.8	1.2500-09	9.0400-09	4.8000-01	8.8400-08	4.0900-02	4.8000-01
-5.6	4.3100-09	2.0500-08	4.7000-01	5.6900-08	6.0900-02	4.7000-01
-5.4	1.4100-08	4.4700-08	4.5600-01	3.6900-08	8.8600-02	4.5600-01
-5.2	4.3000-08	9.2900-08	4.3700-01	2.4100-08	1.2500-01	4.3700-01
-5.0	1.2200-07	1.8300-07	4.1500-01	1.5900-08	1.7100-01	4.1500-01
-4.8	3.2300-07	3.4200-07	3.8700-01	1.0500-08	2.2500-01	3.8700-01
-4.6	7.9100-07	6.0500-07	3.5600-01	6.9800-09	2.8700-01	3.5600-01
-4.4	1.8100-06	1.0200-06	3.2300-01	4.6500-09	3.5500-01	3.2300-01
-4.2	3.9200-06	1.6400-06	2.8800-01	3.1000-09	4.2400-01	2.8800-01
-4.0	8.0200-06	2.5300-06	2.5300-01	2.0600-09	4.9400-01	2.5300-01
-3.8	1.5700-05	3.7800-06	2.1900-01	1.3600-09	5.6200-01	2.1900-01
-3.6	2.9600-05	5.4900-06	1.8700-01	8.9800-10	6.2500-01	1.8700-01
-3.4	5.4100-05	7.7600-06	1.5900-01	5.9000-10	6.8300-01	1.5900-01
-3.2	9.6300-05	1.0700-05	1.3300-01	3.8500-10	7.3400-01	1.3300-01
-3.0	1.6700-04	1.4600-05	1.1000-01	2.5100-10	7.7900-01	1.1000-01
-2.8	2.8600-04	1.9600-05	9.0900-02	1.6300-10	8.1800-01	9.0900-02
-2.6	4.8200-04	2.6000-05	7.4400-02	1.0600-10	8.5100-01	7.4400-02
-2.4	8.0100-04	3.4100-05	6.0600-02	6.8200-11	8.7800-01	6.0700-02
-2.2	1.3200-03	4.4400-05	4.9200-02	4.4000-11	9.0000-01	4.9200-02
-2.0	2.1500-03	5.7500-05	3.9800-02	2.8300-11	9.1800-01	3.9800-02
-1.8	3.4800-03	7.3900-05	3.2100-02	1.8200-11	9.3200-01	3.2100-02
-1.6	5.5900-03	9.4400-05	2.5800-02	1.1800-11	9.4300-01	2.5900-02
-1.4	8.9100-03	1.2000-04	2.0700-02	7.5800-12	9.4900-01	2.0800-02
-1.2	1.4100-02	1.5100-04	1.6600-02	4.8900-12	9.5200-01	1.6700-02
-1.0	2.2000-02	1.9000-04	1.3300-02	3.1700-12	9.5100-01	1.3500-02
-.8	3.3900-02	2.3500-04	1.0600-02	2.0500-12	9.4400-01	1.0800-02
-.6	5.1300-02	2.8700-04	8.4400-03	1.3400-12	9.3100-01	8.7300-03
-.4	7.5800-02	3.4400-04	6.7000-03	8.7100-13	9.1000-01	7.0400-03
-.2	1.0900-01	4.0400-04	5.2900-03	5.7000-13	8.8000-01	5.7000-03
.0	1.5100-01	4.6100-04	4.1500-03	3.7300-13	8.4000-01	4.6200-03
.2	2.0300-01	5.1200-04	3.2300-03	2.4400-13	7.9000-01	3.7500-03
.4	2.6300-01	5.5200-04	2.4900-03	1.5900-13	7.3100-01	3.0400-03
.6	3.2900-01	5.7800-04	1.9000-03	1.0300-13	6.6600-01	2.4800-03
.8	3.9900-01	5.8900-04	1.4300-03	6.5900-14	5.9700-01	2.0200-03
1.0	4.7000-01	5.8500-04	1.0600-03	4.1700-14	5.2600-01	1.6400-03
1.2	5.4100-01	5.6800-04	7.7600-04	2.6100-14	4.5700-01	1.3400-03
1.4	6.0800-01	5.4100-04	5.6100-04	1.6100-14	3.9000-01	1.1000-03
1.6	6.7000-01	5.1100-04	4.0200-04	9.8600-15	3.2800-01	9.1300-04
1.8	7.2700-01	4.8000-04	2.8600-04	5.9600-15	2.7200-01	7.6600-04
2.0	7.7800-01	4.5400-04	2.0300-04	3.5800-15	2.2100-01	6.5700-04
2.2	8.2400-01	4.4000-04	1.4500-04	2.1400-15	1.7500-01	5.8400-04

T= 10400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9880+00	4.9431+01	5.3419+01	1.2639+02	-4.8186+00	3.9885+00
-6.8	3.9812+00	4.9316+01	5.3297+01	1.2443+02	-4.6194+00	3.9818+00
-6.6	3.9707+00	4.9135+01	5.3106+01	1.2242+02	-4.4205+00	3.9715+00
-6.4	3.9546+00	4.8857+01	5.2812+01	1.2032+02	-4.2223+00	3.9555+00
-6.2	3.9301+00	4.8434+01	5.2364+01	1.1808+02	-4.0250+00	3.9313+00
-6.0	3.8937+00	4.7805+01	5.1699+01	1.1565+02	-3.8290+00	3.8951+00
-5.8	3.8411+00	4.6896+01	5.0737+01	1.1296+02	-3.6349+00	3.8429+00
-5.6	3.7683+00	4.5633+01	4.9402+01	1.0994+02	-3.4432+00	3.7704+00
-5.4	3.6722+00	4.3967+01	4.7639+01	1.0656+02	-3.2544+00	3.6746+00
-5.2	3.5527+00	4.1894+01	4.5446+01	1.0283+02	-3.0688+00	3.5555+00
-5.0	3.4134+00	3.9474+01	4.2888+01	9.8801+01	-2.8862+00	3.4164+00
-4.8	3.2609+00	3.6825+01	4.0086+01	9.4615+01	-2.7060+00	3.2641+00
-4.6	3.1036+00	3.4091+01	3.7195+01	9.0415+01	-2.5275+00	3.1069+00
-4.4	2.9495+00	3.1411+01	3.4360+01	8.6341+01	-2.3496+00	2.9528+00
-4.2	2.8048+00	2.8894+01	3.1699+01	8.2500+01	-2.1715+00	2.8081+00
-4.0	2.6738+00	2.6613+01	2.9286+01	7.8957+01	-1.9922+00	2.6769+00
-3.8	2.5582+00	2.4601+01	2.7160+01	7.5742+01	-1.8114+00	2.5612+00
-3.6	2.4587+00	2.2867+01	2.5326+01	7.2853+01	-1.6287+00	2.4614+00
-3.4	2.3743+00	2.1397+01	2.3771+01	7.0271+01	-1.4438+00	2.3768+00
-3.2	2.3037+00	2.0167+01	2.2471+01	6.7964+01	-1.2569+00	2.3061+00
-3.0	2.2453+00	1.9149+01	2.1394+01	6.5899+01	-1.0681+00	2.2474+00
-2.8	2.1972+00	1.8312+01	2.0509+01	6.4040+01	-8.7749-01	2.1992+00
-2.6	2.1579+00	1.7628+01	1.9786+01	6.2353+01	-6.8534-01	2.1597+00
-2.4	2.1256+00	1.7069+01	1.9195+01	6.0808+01	-4.9188-01	2.1273+00
-2.2	2.0991+00	1.6611+01	1.8710+01	5.9378+01	-2.9734-01	2.1006+00
-2.0	2.0769+00	1.6233+01	1.8310+01	5.8038+01	-1.0196-01	2.0782+00
-1.8	2.0577+00	1.5914+01	1.7972+01	5.6767+01	9.4014-02	2.0588+00
-1.6	2.0402+00	1.5634+01	1.7675+01	5.5544+01	2.9031-01	2.0412+00
-1.4	2.0230+00	1.5374+01	1.7397+01	5.4348+01	4.8663-01	2.0239+00
-1.2	2.0043+00	1.5109+01	1.7113+01	5.3156+01	6.8261-01	2.0050+00
-1.0	1.9822+00	1.4815+01	1.6797+01	5.1944+01	8.7778-01	1.9827+00
-.8	1.9542+00	1.4463+01	1.6417+01	5.0685+01	1.0716+00	1.9544+00
-.6	1.9179+00	1.4023+01	1.5941+01	4.9353+01	1.2635+00	1.9178+00
-.4	1.8713+00	1.3471+01	1.5343+01	4.7928+01	1.4528+00	1.8708+00
-.2	1.8136+00	1.2796+01	1.4609+01	4.6404+01	1.6392+00	1.8125+00
.0	1.7458+00	1.2006+01	1.3752+01	4.4795+01	1.8226+00	1.7437+00
.2	1.6706+00	1.1133+01	1.2804+01	4.3134+01	2.0035+00	1.6673+00
.4	1.5922+00	1.0219+01	1.1811+01	4.1469+01	2.1826+00	1.5870+00
.6	1.5151+00	9.3110+00	1.0826+01	3.9846+01	2.3611+00	1.5071+00
.8	1.4430+00	8.4477+00	9.8907+00	3.8302+01	2.5399+00	1.4310+00
1.0	1.3792+00	7.6564+00	9.0356+00	3.6861+01	2.7203+00	1.3612+00
1.2	1.3261+00	6.9518+00	8.2779+00	3.5534+01	2.9032+00	1.2989+00
1.4	1.2857+00	6.3385+00	7.6242+00	3.4320+01	3.0898+00	1.2446+00
1.6	1.2604+00	5.8138+00	7.0742+00	3.3209+01	3.2811+00	1.1979+00
1.8	1.2536+00	5.3708+00	6.6244+00	3.2188+01	3.4788+00	1.1583+00
2.0	1.2711+00	5.0008+00	6.2718+00	3.1238+01	3.6848+00	1.1249+00
2.2	1.3220+00	4.6951+00	6.0171+00	3.0337+01	3.9019+00	1.0967+00

T= 10500

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.6600-13	3.3900-11	4.9900-01	1.8600-06	2.4600-03	4.9900-01
-6.8	1.0500-12	8.4600-11	4.9800-01	1.1800-06	3.8800-03	4.9800-01
-6.6	4.1100-12	2.1000-10	4.9700-01	7.4600-07	6.1100-03	4.9700-01
-6.4	1.6000-11	5.1900-10	4.9500-01	4.7200-07	9.5800-03	4.9500-01
-6.2	6.1200-11	1.2700-09	4.9300-01	3.0000-07	1.4900-02	4.9300-01
-6.0	2.3000-10	3.0500-09	4.8800-01	1.9100-07	2.3100-02	4.8800-01
-5.8	8.3900-10	7.2100-09	4.8200-01	1.2200-07	3.5200-02	4.8200-01
-5.6	2.9400-09	1.6600-08	4.7400-01	7.8400-08	5.2900-02	4.7400-01
-5.4	9.8200-09	3.6700-08	4.6100-01	5.0700-08	7.7600-02	4.6100-01
-5.2	3.0800-08	7.7600-08	4.4500-01	3.3000-08	1.1100-01	4.4500-01
-5.0	8.9800-08	1.5600-07	4.2300-01	2.1700-08	1.5300-01	4.2300-01
-4.8	2.4300-07	2.9700-07	3.9800-01	1.4300-08	2.0500-01	3.9800-01
-4.6	6.1200-07	5.3500-07	3.6800-01	9.5200-09	2.6400-01	3.6800-01
-4.4	1.4400-06	9.1700-07	3.3500-01	6.3400-09	3.3000-01	3.3500-01
-4.2	3.1700-06	1.5000-06	3.0000-01	4.2200-09	3.9900-01	3.0000-01
-4.0	6.6100-06	2.3500-06	2.6500-01	2.8100-09	4.6900-01	2.6500-01
-3.8	1.3100-05	3.5500-06	2.3100-01	1.8600-09	5.3800-01	2.3100-01
-3.6	2.5100-05	5.2000-06	1.9900-01	1.2300-09	6.0300-01	1.9900-01
-3.4	4.6300-05	7.4200-06	1.6900-01	8.0900-10	6.6200-01	1.6900-01
-3.2	8.3200-05	1.0300-05	1.4200-01	5.3000-10	7.1600-01	1.4200-01
-3.0	1.4600-04	1.4200-05	1.1800-01	3.4600-10	7.6400-01	1.1800-01
-2.8	2.5100-04	1.9100-05	9.7600-02	2.2500-10	8.0500-01	9.7600-02
-2.6	4.2400-04	2.5400-05	8.0100-02	1.4600-10	8.3900-01	8.0100-02
-2.4	7.0800-04	3.3500-05	6.5400-02	9.4300-11	8.6800-01	6.5400-02
-2.2	1.1700-03	4.3700-05	5.3100-02	6.0900-11	8.9200-01	5.3200-02
-2.0	1.9100-03	5.6700-05	4.3000-02	3.9300-11	9.1200-01	4.3100-02
-1.8	3.1000-03	7.3000-05	3.4700-02	2.5300-11	9.2700-01	3.4800-02
-1.6	5.0000-03	9.3500-05	2.7900-02	1.6300-11	9.3900-01	2.8000-02
-1.4	7.9900-03	1.1900-04	2.2500-02	1.0500-11	9.4700-01	2.2600-02
-1.2	1.2700-02	1.5100-04	1.8000-02	6.8000-12	9.5100-01	1.8200-02
-1.0	1.9800-02	1.8900-04	1.4400-02	4.4000-12	9.5100-01	1.4600-02
-.8	3.0700-02	2.3500-04	1.1500-02	2.8600-12	9.4600-01	1.1800-02
-.6	4.6600-02	2.8800-04	9.1900-03	1.8600-12	9.3400-01	9.4800-03
-.4	6.9300-02	3.4700-04	7.3000-03	1.2100-12	9.1500-01	7.6500-03
-.2	1.0000-01	4.1000-04	5.7800-03	7.9500-13	8.8700-01	6.1900-03
.0	1.4000-01	4.7200-04	4.5400-03	5.2100-13	8.5000-01	5.0100-03
.2	1.9000-01	5.2800-04	3.5500-03	3.4200-13	8.0200-01	4.0700-03
.4	2.4800-01	5.7300-04	2.7400-03	2.2300-13	7.4500-01	3.3100-03
.6	3.1300-01	6.0400-04	2.0900-03	1.4500-13	6.8100-01	2.7000-03
.8	3.8300-01	6.2000-04	1.5800-03	9.3200-14	6.1300-01	2.2000-03
1.0	4.5400-01	6.1900-04	1.1800-03	5.9300-14	5.4200-01	1.8000-03
1.2	5.2500-01	6.0500-04	8.6500-04	3.7300-14	4.7200-01	1.4700-03
1.4	5.9300-01	5.8100-04	6.2800-04	2.3200-14	4.0500-01	1.2100-03
1.6	6.5700-01	5.5000-04	4.5200-04	1.4300-14	3.4100-01	1.0000-03
1.8	7.1500-01	5.2000-04	3.2200-04	8.6800-15	2.8300-01	8.4200-04
2.0	7.6800-01	4.9400-04	2.2900-04	5.2500-15	2.3000-01	7.2300-04
2.2	8.1500-01	4.8100-04	1.6400-04	3.1800-15	1.8300-01	6.4500-04

T= 10500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9897+00	4.9054+01	5.3044+01	1.2648+02	-4.8143+00	3.9902+00
-6.8	3.9839+00	4.8956+01	5.2940+01	1.2455+02	-4.6149+00	3.9846+00
-6.6	3.9750+00	4.8804+01	5.2778+01	1.2256+02	-4.4159+00	3.9757+00
-6.4	3.9611+00	4.8567+01	5.2528+01	1.2050+02	-4.2174+00	3.9621+00
-6.2	3.9400+00	4.8206+01	5.2146+01	1.1832+02	-4.0197+00	3.9412+00
-6.0	3.9083+00	4.7664+01	5.1573+01	1.1597+02	-3.8232+00	3.9098+00
-5.8	3.8621+00	4.6872+01	5.0734+01	1.1338+02	-3.6284+00	3.8638+00
-5.6	3.7970+00	4.5755+01	4.9552+01	1.1050+02	-3.4358+00	3.7991+00
-5.4	3.7094+00	4.4251+01	4.7961+01	1.0727+02	-3.2459+00	3.7119+00
-5.2	3.5982+00	4.2339+01	4.5937+01	1.0367+02	-3.0591+00	3.6010+00
-5.0	3.4654+00	4.0055+01	4.3520+01	9.9762+01	-2.8755+00	3.4685+00
-4.8	3.3167+00	3.7497+01	4.0814+01	9.5642+01	-2.6945+00	3.3201+00
-4.6	3.1602+00	3.4802+01	3.7962+01	9.1456+01	-2.5155+00	3.1637+00
-4.4	3.0041+00	3.2113+01	3.5117+01	8.7347+01	-2.3375+00	3.0076+00
-4.2	2.8555+00	2.9551+01	3.2407+01	8.3436+01	-2.1595+00	2.8590+00
-4.0	2.7192+00	2.7201+01	2.9921+01	7.9804+01	-1.9808+00	2.7226+00
-3.8	2.5980+00	2.5110+01	2.7708+01	7.6489+01	-1.8006+00	2.6012+00
-3.6	2.4927+00	2.3294+01	2.5786+01	7.3501+01	-1.6185+00	2.4958+00
-3.4	2.4030+00	2.1745+01	2.4148+01	7.0825+01	-1.4345+00	2.4058+00
-3.2	2.3276+00	2.0444+01	2.2771+01	6.8435+01	-1.2483+00	2.3303+00
-3.0	2.2650+00	1.9363+01	2.1628+01	6.6297+01	-1.0601+00	2.2674+00
-2.8	2.2134+00	1.8472+01	2.0685+01	6.4376+01	-8.7014-01	2.2156+00
-2.6	2.1711+00	1.7742+01	1.9913+01	6.2637+01	-6.7853-01	2.1731+00
-2.4	2.1365+00	1.7146+01	1.9283+01	6.1049+01	-4.8551-01	2.1383+00
-2.2	2.1080+00	1.6658+01	1.8766+01	5.9584+01	-2.9135-01	2.1096+00
-2.0	2.0843+00	1.6257+01	1.8341+01	5.8217+01	-9.6260-02	2.0857+00
-1.8	2.0640+00	1.5920+01	1.7984+01	5.6925+01	9.9497-02	2.0653+00
-1.6	2.0459+00	1.5628+01	1.7674+01	5.5688+01	2.9566-01	2.0470+00
-1.4	2.0284+00	1.5362+01	1.7390+01	5.4483+01	4.9194-01	2.0294+00
-1.2	2.0100+00	1.5098+01	1.7108+01	5.3289+01	6.8798-01	2.0108+00
-1.0	1.9887+00	1.4812+01	1.6801+01	5.2083+01	8.8335-01	1.9892+00
-.8	1.9621+00	1.4476+01	1.6439+01	5.0837+01	1.0775+00	1.9624+00
-.6	1.9278+00	1.4061+01	1.5989+01	4.9525+01	1.2699+00	1.9278+00
-.4	1.8837+00	1.3539+01	1.5423+01	4.8125+01	1.4598+00	1.8832+00
-.2	1.8285+00	1.2896+01	1.4725+01	4.6627+01	1.6469+00	1.8274+00
.0	1.7629+00	1.2137+01	1.3900+01	4.5040+01	1.8310+00	1.7608+00
.2	1.6891+00	1.1286+01	1.2975+01	4.3394+01	2.0125+00	1.6858+00
.4	1.6112+00	1.0384+01	1.1995+01	4.1732+01	2.1919+00	1.6060+00
.6	1.5336+00	9.4774+00	1.1011+01	4.0102+01	2.3705+00	1.5255+00
.8	1.4604+00	8.6074+00	1.0068+01	3.8542+01	2.5492+00	1.4482+00
1.0	1.3949+00	7.8036+00	9.1985+00	3.7082+01	2.7293+00	1.3767+00
1.2	1.3399+00	7.0833+00	8.4232+00	3.5732+01	2.9119+00	1.3125+00
1.4	1.2976+00	6.4531+00	7.7508+00	3.4495+01	3.0979+00	1.2562+00
1.6	1.2705+00	5.9118+00	7.1823+00	3.3363+01	3.2888+00	1.2076+00
1.8	1.2622+00	5.4533+00	6.7154+00	3.2322+01	3.4859+00	1.1663+00
2.0	1.2782+00	5.0692+00	6.3474+00	3.1354+01	3.6914+00	1.1313+00
2.2	1.3278+00	4.7511+00	6.0789+00	3.0437+01	3.9079+00	1.1018+00

T= 10600

LOG O	N2	N2+	N+	N++	N	E
-7.0	1.7300-13	2.6500-11	4.9900-01	2.5700-06	2.0900-03	4.9900-01
-6.8	6.8500-13	6.6200-11	4.9800-01	1.6200-06	3.3100-03	4.9800-01
-6.6	2.6900-12	1.6500-10	4.9700-01	1.0300-06	5.2100-03	4.9700-01
-6.4	1.0500-11	4.0700-10	4.9600-01	6.5100-07	8.1800-03	4.9600-01
-6.2	4.0300-11	9.9900-10	4.9400-01	4.1300-07	1.2800-02	4.9400-01
-6.0	1.5300-10	2.4200-09	4.9000-01	2.6200-07	1.9800-02	4.9000-01
-5.8	5.6400-10	5.7700-09	4.8500-01	1.6700-07	3.0400-02	4.8500-01
-5.6	2.0100-09	1.3400-08	4.7700-01	1.0700-07	4.5900-02	4.7700-01
-5.4	6.8300-09	3.0000-08	4.6600-01	6.9300-08	6.8000-02	4.6600-01
-5.2	2.1900-08	6.4600-08	4.5100-01	4.5100-08	9.8000-02	4.5100-01
-5.0	6.5600-08	1.3200-07	4.3100-01	2.9500-08	1.3700-01	4.3100-01
-4.8	1.8300-07	2.5700-07	4.0700-01	1.9500-08	1.8600-01	4.0700-01
-4.6	4.7100-07	4.7200-07	3.7900-01	1.2900-08	2.4200-01	3.7900-01
-4.4	1.1300-06	8.2300-07	3.4700-01	8.5800-09	3.0600-01	3.4700-01
-4.2	2.5500-06	1.3700-06	3.1300-01	5.7200-09	3.7400-01	3.1300-01
-4.0	5.4200-06	2.1700-06	2.7800-01	3.8100-09	4.4400-01	2.7800-01
-3.8	1.1000-05	3.3300-06	2.4300-01	2.5300-09	5.1400-01	2.4300-01
-3.6	2.1200-05	4.9200-06	2.1000-01	1.6700-09	5.8000-01	2.1000-01
-3.4	3.9600-05	7.0900-06	1.7900-01	1.1000-09	6.4200-01	1.7900-01
-3.2	7.1800-05	9.9600-06	1.5100-01	7.2400-10	6.9800-01	1.5100-01
-3.0	1.2700-04	1.3700-05	1.2600-01	4.7300-10	7.4700-01	1.2600-01
-2.8	2.1900-04	1.8600-05	1.0500-01	3.0800-10	7.9100-01	1.0500-01
-2.6	3.7300-04	2.4900-05	8.6000-02	2.0000-10	8.2800-01	8.6000-02
-2.4	6.2600-04	3.2900-05	7.0400-02	1.3000-10	8.5900-01	7.0400-02
-2.2	1.0400-03	4.3100-05	5.7300-02	8.3800-11	8.8400-01	5.7300-02
-2.0	1.7000-03	5.6000-05	4.6400-02	5.4100-11	9.0500-01	4.6500-02
-1.8	2.7700-03	7.2200-05	3.7500-02	3.4900-11	9.2200-01	3.7600-02
-1.6	4.4700-03	9.2700-05	3.0200-02	2.2500-11	9.3500-01	3.0300-02
-1.4	7.1600-03	1.1800-04	2.4300-02	1.4600-11	9.4400-01	2.4400-02
-1.2	1.1400-02	1.5000-04	1.9500-02	9.4100-12	9.4900-01	1.9700-02
-1.0	1.7900-02	1.8900-04	1.5600-02	6.0900-12	9.5000-01	1.5800-02
-.8	2.7800-02	2.3500-04	1.2500-02	3.9600-12	9.4700-01	1.2700-02
-.6	4.2400-02	2.9000-04	9.9800-03	2.5800-12	9.3700-01	1.0300-02
-.4	6.3400-02	3.5100-04	7.9400-03	1.6800-12	9.2000-01	8.2900-03
-.2	9.2300-02	4.1600-04	6.2900-03	1.1000-12	8.9400-01	6.7100-03
.0	1.3000-01	4.8200-04	4.9600-03	7.2400-13	8.5900-01	5.4400-03
.2	1.7800-01	5.4300-04	3.8800-03	4.7500-13	8.1300-01	4.4200-03
.4	2.3400-01	5.9400-04	3.0100-03	3.1100-13	7.5900-01	3.6000-03
.6	2.9800-01	6.3100-04	2.3000-03	2.0200-13	6.9600-01	2.9300-03
.8	3.6600-01	6.5200-04	1.7400-03	1.3100-13	6.2900-01	2.4000-03
1.0	4.3800-01	6.5600-04	1.3000-03	8.3700-14	5.5800-01	1.9600-03
1.2	5.0900-01	6.4400-04	9.6200-04	5.2900-14	4.8800-01	1.6100-03
1.4	5.7800-01	6.2200-04	7.0100-04	3.3100-14	4.1900-01	1.3200-03
1.6	6.4300-01	5.9300-04	5.0600-04	2.0500-14	3.5500-01	1.1000-03
1.8	7.0300-01	5.6300-04	3.6200-04	1.2600-14	2.9500-01	9.2500-04
2.0	7.5800-01	5.3700-04	2.5900-04	7.6600-15	2.4100-01	7.9600-04
2.2	8.0700-01	5.2600-04	1.8600-04	4.6800-15	1.9200-01	7.1100-04

T= 10600

LOG Ø	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9912+00	4.8679+01	5.2670+01	1.2657+02	-4.8100+00	3.9917+00
-6.8	3.9862+00	4.8596+01	5.2582+01	1.2465+02	-4.6105+00	3.9869+00
-6.6	3.9785+00	4.8467+01	5.2445+01	1.2268+02	-4.4114+00	3.9793+00
-6.4	3.9666+00	4.8266+01	5.2232+01	1.2065+02	-4.2127+00	3.9676+00
-6.2	3.9484+00	4.7957+01	5.1906+01	1.1852+02	-4.0147+00	3.9496+00
-6.0	3.9208+00	4.7491+01	5.1412+01	1.1624+02	-3.8177+00	3.9223+00
-5.8	3.8802+00	4.6802+01	5.0682+01	1.1376+02	-3.6222+00	3.8820+00
-5.6	3.8223+00	4.5817+01	4.9639+01	1.1100+02	-3.4288+00	3.8244+00
-5.4	3.7429+00	4.4467+01	4.8210+01	1.0791+02	-3.2379+00	3.7454+00
-5.2	3.6400+00	4.2715+01	4.6355+01	1.0445+02	-3.0500+00	3.6429+00
-5.0	3.5143+00	4.0574+01	4.4088+01	1.0066+02	-2.8653+00	3.5175+00
-4.8	3.3705+00	3.8122+01	4.1492+01	9.6625+01	-2.6834+00	3.3740+00
-4.6	3.2158+00	3.5483+01	3.8699+01	9.2470+01	-2.5038+00	3.2195+00
-4.4	3.0587+00	3.2802+01	3.5860+01	8.8344+01	-2.3256+00	3.0625+00
-4.2	2.9068+00	3.0208+01	3.3114+01	8.4376+01	-2.1477+00	2.9105+00
-4.0	2.7657+00	2.7798+01	3.0564+01	8.0661+01	-1.9693+00	2.7694+00
-3.8	2.6390+00	2.5632+01	2.8271+01	7.7251+01	-1.7896+00	2.6426+00
-3.6	2.5281+00	2.3736+01	2.6264+01	7.4166+01	-1.6083+00	2.5315+00
-3.4	2.4330+00	2.2109+01	2.4542+01	7.1397+01	-1.4249+00	2.4361+00
-3.2	2.3528+00	2.0736+01	2.3089+01	6.8923+01	-1.2395+00	2.3556+00
-3.0	2.2858+00	1.9591+01	2.1876+01	6.6710+01	-1.0520+00	2.2885+00
-2.8	2.2305+00	1.8644+01	2.0875+01	6.4724+01	-8.6268-01	2.2330+00
-2.6	2.1851+00	1.7868+01	2.0053+01	6.2931+01	-6.7162-01	2.1873+00
-2.4	2.1479+00	1.7233+01	1.9380+01	6.1298+01	-4.7908-01	2.1499+00
-2.2	2.1173+00	1.6713+01	1.8831+01	5.9797+01	-2.8530-01	2.1192+00
-2.0	2.0920+00	1.6286+01	1.8378+01	5.8401+01	-9.0530-02	2.0936+00
-1.8	2.0706+00	1.5931+01	1.8001+01	5.7087+01	1.0499-01	2.0720+00
-1.6	2.0516+00	1.5626+01	1.7678+01	5.5833+01	3.0101-01	2.0529+00
-1.4	2.0338+00	1.5352+01	1.7386+01	5.4619+01	4.9722-01	2.0349+00
-1.2	2.0155+00	1.5087+01	1.7103+01	5.3421+01	6.9330-01	2.0164+00
-1.0	1.9949+00	1.4808+01	1.6802+01	5.2218+01	8.8882-01	1.9955+00
-.8	1.9696+00	1.4486+01	1.6455+01	5.0983+01	1.0833+00	1.9700+00
-.6	1.9372+00	1.4092+01	1.6029+01	4.9690+01	1.2761+00	1.9372+00
-.4	1.8954+00	1.3599+01	1.5494+01	4.8314+01	1.4666+00	1.8950+00
-.2	1.8427+00	1.2988+01	1.4831+01	4.6842+01	1.6544+00	1.8417+00
.0	1.7793+00	1.2259+01	1.4038+01	4.5278+01	1.8392+00	1.7773+00
.2	1.7072+00	1.1431+01	1.3138+01	4.3648+01	2.0212+00	1.7038+00
.4	1.6299+00	1.0544+01	1.2174+01	4.1991+01	2.2011+00	1.6247+00
.6	1.5521+00	9.6411+00	1.1193+01	4.0356+01	2.3798+00	1.5439+00
.8	1.4778+00	8.7662+00	1.0244+01	3.8784+01	2.5585+00	1.4655+00
1.0	1.4108+00	7.9512+00	9.3620+00	3.7304+01	2.7384+00	1.3924+00
1.2	1.3540+00	7.2160+00	8.5700+00	3.5933+01	2.9205+00	1.3263+00
1.4	1.3099+00	6.5694+00	7.8793+00	3.4673+01	3.1061+00	1.2680+00
1.6	1.2810+00	6.0116+00	7.2926+00	3.3520+01	3.2965+00	1.2176+00
1.8	1.2710+00	5.5375+00	6.8085+00	3.2459+01	3.4930+00	1.1745+00
2.0	1.2856+00	5.1393+00	6.4248+00	3.1473+01	3.6980+00	1.1380+00
2.2	1.3339+00	4.8086+00	6.1425+00	3.0541+01	3.9140+00	1.1071+00

T= 10700

LOG O	N2	N2+	N+	N++	N	E
-7.0	1.1400-13	2.0800-11	4.9900-01	3.5200-06	1.7900-03	4.9900-01
-6.8	4.5000-13	5.2000-11	4.9900-01	2.2300-06	2.8200-03	4.9900-01
-6.6	1.7700-12	1.2900-10	4.9800-01	1.4100-06	4.4500-03	4.9800-01
-6.4	6.9200-12	3.2100-10	4.9600-01	8.9100-07	7.0000-03	4.9700-01
-6.2	2.6800-11	7.9000-10	4.9500-01	5.6500-07	1.1000-02	4.9500-01
-6.0	1.0200-10	1.9200-09	4.9100-01	3.5900-07	1.7000-02	4.9100-01
-5.8	3.8000-10	4.6100-09	4.8700-01	2.2900-07	2.6200-02	4.8700-01
-5.6	1.3700-09	1.0800-08	4.8000-01	1.4600-07	3.9900-02	4.8000-01
-5.4	4.7500-09	2.4600-08	4.7000-01	9.4300-08	5.9500-02	4.7000-01
-5.2	1.5600-08	5.3700-08	4.5700-01	6.1100-08	8.6600-02	4.5700-01
-5.0	4.7800-08	1.1700-07	4.3900-01	3.9900-08	1.2300-01	4.3900-01
-4.8	1.3600-07	2.2100-07	4.1600-01	2.6300-08	1.6800-01	4.1600-01
-4.6	3.6200-07	4.1500-07	3.8900-01	1.7400-08	2.2200-01	3.8900-01
-4.4	8.9000-07	7.3600-07	3.5800-01	1.1600-08	2.8300-01	3.5800-01
-4.2	2.0500-06	1.2400-06	3.2500-01	7.7100-09	3.5000-01	3.2500-01
-4.0	4.4400-06	2.0000-06	2.9000-01	5.1300-09	4.2000-01	2.9000-01
-3.8	9.1200-06	3.1100-06	2.5500-01	3.4100-09	4.9000-01	2.5500-01
-3.6	1.7900-05	4.6500-06	2.2100-01	2.2600-09	5.5700-01	2.2100-01
-3.4	3.3800-05	6.7500-06	1.9000-01	1.4900-09	6.2100-01	1.9000-01
-3.2	6.1900-05	9.5700-06	1.6100-01	9.8300-10	6.7900-01	1.6100-01
-3.0	1.1000-04	1.3300-05	1.3500-01	6.4300-10	7.3100-01	1.3500-01
-2.8	1.9200-04	1.8100-05	1.1200-01	4.2000-10	7.7600-01	1.1200-01
-2.6	3.2900-04	2.4300-05	9.2200-02	2.7300-10	8.1500-01	9.2200-02
-2.4	5.5400-04	3.2200-05	7.5600-02	1.7700-10	8.4800-01	7.5600-02
-2.2	9.2100-04	4.2300-05	6.1600-02	1.1500-10	8.7600-01	6.1700-02
-2.0	1.5200-03	5.5200-05	5.0000-02	7.4100-11	8.9800-01	5.0100-02
-1.8	2.4700-03	7.1400-05	4.0500-02	4.7900-11	9.1600-01	4.0500-02
-1.6	4.0000-03	9.1800-05	3.2700-02	3.0900-11	9.3100-01	3.2700-02
-1.4	6.4300-03	1.1700-04	2.6300-02	2.0000-11	9.4100-01	2.6400-02
-1.2	1.0200-02	1.4900-04	2.1100-02	1.2900-11	9.4700-01	2.1300-02
-1.0	1.6100-02	1.8800-04	1.6900-02	8.3800-12	9.5000-01	1.7100-02
-.8	2.5100-02	2.3500-04	1.3600-02	5.4400-12	9.4700-01	1.3800-02
-.6	3.8600-02	2.9100-04	1.0800-02	3.5500-12	9.3900-01	1.1100-02
-.4	5.8000-02	3.5400-04	8.6300-03	2.3200-12	9.2400-01	8.9800-03
-.2	8.4900-02	4.2200-04	6.8400-03	1.5200-12	9.0100-01	7.2700-03
.0	1.2100-01	4.9200-04	5.4000-03	9.9900-13	8.6700-01	5.8900-03
.2	1.6600-01	5.5800-04	4.2300-03	6.5700-13	8.2400-01	4.7900-03
.4	2.2100-01	6.1400-04	3.2900-03	4.3100-13	7.7200-01	3.9000-03
.6	2.8300-01	6.5700-04	2.5300-03	2.8200-13	7.1100-01	3.1900-03
.8	3.5100-01	6.8300-04	1.9200-03	1.8300-13	6.4400-01	2.6000-03
1.0	4.2200-01	6.9200-04	1.4400-03	1.1700-13	5.7400-01	2.1300-03
1.2	4.9300-01	6.8500-04	1.0700-03	7.4600-14	5.0300-01	1.7500-03
1.4	5.6300-01	6.6500-04	7.8000-04	4.7000-14	4.3400-01	1.4500-03
1.6	6.2900-01	6.3700-04	5.6500-04	2.9200-14	3.6800-01	1.2000-03
1.8	6.9100-01	6.0800-04	4.0600-04	1.8100-14	3.0700-01	1.0100-03
2.0	7.4700-01	5.8300-04	2.9100-04	1.1100-14	2.5100-01	8.7500-04
2.2	7.9800-01	5.7400-04	2.1000-04	6.8500-15	2.0000-01	7.8300-04



T= 10700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0-	3.9924+00	4.8307+01	5.2299+01	1.2665+02	-4.8058+00	3.9929+00
-6.8	3.9882+00	4.8236+01	5.2225+01	1.2474+02	-4.6062+00	3.9888+00
-6.6	3.9816+00	4.8126+01	5.2108+01	1.2280+02	-4.4070+00	3.9823+00
-6.4	3.9713+00	4.7955+01	5.1927+01	1.2080+02	-4.2081+00	3.9722+00
-6.2	3.9555+00	4.7692+01	5.1647+01	1.1871+02	-4.0098+00	3.9567+00
-6.0	3.9316+00	4.7290+01	5.1222+01	1.1649+02	-3.8124+00	3.9330+00
-5.8	3.8960+00	4.6692+01	5.0588+01	1.1409+02	-3.6164+00	3.8977+00
-5.6	3.8445+00	4.5826+01	4.9670+01	1.1144+02	-3.4222+00	3.8466+00
-5.4	3.7729+00	4.4620+01	4.8393+01	1.0848+02	-3.2303+00	3.7754+00
-5.2	3.6783+00	4.3024+01	4.6702+01	1.0516+02	-3.0414+00	3.6812+00
-5.0	3.5602+00	4.1031+01	4.4591+01	1.0150+02	-2.8555+00	3.5635+00
-4.8	3.4219+00	3.8696+01	4.2118+01	9.7560+01	-2.6727+00	3.4255+00
-4.6	3.2701+00	3.6130+01	3.9400+01	9.3453+01	-2.4925+00	3.2739+00
-4.4	3.1129+00	3.3472+01	3.6585+01	8.9325+01	-2.3138+00	3.1169+00
-4.2	2.9585+00	3.0859+01	3.3817+01	8.5314+01	-2.1360+00	2.9625+00
-4.0	2.8132+00	2.8399+01	3.1212+01	8.1526+01	-1.9578+00	2.8171+00
-3.8	2.6812+00	2.6165+01	2.8846+01	7.8027+01	-1.7787+00	2.6851+00
-3.6	2.5648+00	2.4192+01	2.6757+01	7.4847+01	-1.5980+00	2.5684+00
-3.4	2.4643+00	2.2489+01	2.4953+01	7.1986+01	-1.4153+00	2.4677+00
-3.2	2.3790+00	2.1043+01	2.3422+01	6.9426+01	-1.2306+00	2.3822+00
-3.0	2.3077+00	1.9832+01	2.2140+01	6.7137+01	-1.0438+00	2.3106+00
-2.8	2.2485+00	1.8829+01	2.1078+01	6.5085+01	-8.5512-01	2.2512+00
-2.6	2.1999+00	1.8004+01	2.0204+01	6.3236+01	-6.6462-01	2.2023+00
-2.4	2.1600+00	1.7329+01	1.9489+01	6.1557+01	-4.7257-01	2.1622+00
-2.2	2.1272+00	1.6776+01	1.8903+01	6.0017+01	-2.7920-01	2.1292+00
-2.0	2.1002+00	1.6323+01	1.8423+01	5.8591+01	-8.4765-02	2.1020+00
-1.8	2.0774+00	1.5947+01	1.8024+01	5.7253+01	1.1050-01	2.0790+00
-1.6	2.0576+00	1.5627+01	1.7685+01	5.5981+01	3.0634-01	2.0590+00
-1.4	2.0393+00	1.5344+01	1.7384+01	5.4755+01	5.0247-01	2.0405+00
-1.2	2.0210+00	1.5077+01	1.7098+01	5.3553+01	6.9855-01	2.0220+00
-1.0	2.0008+00	1.4801+01	1.6802+01	5.2351+01	8.9419-01	2.0016+00
-.8	1.9766+00	1.4491+01	1.6468+01	5.1125+01	1.0889+00	1.9771+00
-.6	1.9459+00	1.4117+01	1.6062+01	4.9847+01	1.2821+00	1.9460+00
-.4	1.9063+00	1.3650+01	1.5556+01	4.8493+01	1.4732+00	1.9060+00
-.2	1.8561+00	1.3069+01	1.4926+01	4.7046+01	1.6616+00	1.8551+00
.0	1.7950+00	1.2370+01	1.4165+01	4.5505+01	1.8471+00	1.7931+00
.2	1.7246+00	1.1568+01	1.3293+01	4.3892+01	2.0297+00	1.7213+00
.4	1.6483+00	1.0696+01	1.2345+01	4.2244+01	2.2100+00	1.6430+00
.6	1.5703+00	9.7999+00	1.1370+01	4.0606+01	2.3890+00	1.5621+00
.8	1.4952+00	8.9220+00	1.0417+01	3.9023+01	2.5677+00	1.4828+00
1.0	1.4268+00	8.0973+00	9.5242+00	3.7525+01	2.7474+00	1.4082+00
1.2	1.3683+00	7.3484+00	8.7167+00	3.6133+01	2.9292+00	1.3403+00
1.4	1.3223+00	6.6860+00	8.0083+00	3.4852+01	3.1143+00	1.2801+00
1.6	1.2917+00	6.1122+00	7.4038+00	3.3677+01	3.3041+00	1.2278+00
1.8	1.2800+00	5.6227+00	6.9027+00	3.2596+01	3.5002+00	1.1830+00
2.0	1.2931+00	5.2103+00	6.5034+00	3.1592+01	3.7046+00	1.1448+00
2.2	1.3401+00	4.8670+00	6.2071+00	3.0644+01	3.9201+00	1.1125+00

T= 10800

LOG D	N2	N2+	N+	N++	N	E
-7.0	7.5300-14	1.6400-11	4.9900-01	4.8000-06	1.5300-03	4.9900-01
-6.8	2.9800-13	4.0900-11	4.9900-01	3.0300-06	2.4200-03	4.9900-01
-6.6	1.1700-12	1.0200-10	4.9800-01	1.9200-06	3.8100-03	4.9800-01
-6.4	4.6000-12	2.5400-10	4.9700-01	1.2100-06	6.0000-03	4.9700-01
-6.2	1.7900-11	6.2600-10	4.9500-01	7.6900-07	9.4100-03	4.9500-01
-6.0	6.8500-11	1.5300-09	4.9300-01	4.8800-07	1.4700-02	4.9300-01
-5.8	2.5800-10	3.6900-09	4.8900-01	3.1100-07	2.2700-02	4.8900-01
-5.6	9.4100-10	8.7200-09	4.8300-01	1.9900-07	3.4600-02	4.8300-01
-5.4	3.3100-09	2.0100-08	4.7400-01	1.2800-07	5.2000-02	4.7400-01
-5.2	1.1100-08	4.4400-08	4.6200-01	8.2600-08	7.6400-02	4.6200-01
-5.0	3.4700-08	9.4200-08	4.4500-01	5.3800-08	1.0900-01	4.4500-01
-4.8	1.0200-07	1.9000-07	4.2400-01	3.5300-08	1.5100-01	4.2400-01
-4.6	2.7600-07	3.6200-07	3.9900-01	2.3300-08	2.0200-01	3.9900-01
-4.4	6.9700-07	6.5500-07	3.6900-01	1.5500-08	2.6200-01	3.6900-01
-4.2	1.6400-06	1.1200-06	3.3700-01	1.0300-08	3.2700-01	3.3700-01
-4.0	3.6300-06	1.8400-06	3.0200-01	6.8900-09	3.9600-01	3.0200-01
-3.8	7.5800-06	2.8900-06	2.6700-01	4.5800-09	4.6600-01	2.6700-01
-3.6	1.5100-05	4.3800-06	2.3300-01	3.0400-09	5.3400-01	2.3300-01
-3.4	2.8900-05	6.4200-06	2.0000-01	2.0100-09	6.0000-01	2.0000-01
-3.2	5.3400-05	9.1700-06	1.7000-01	1.3300-09	6.6000-01	1.7000-01
-3.0	9.6000-05	1.2800-05	1.4300-01	8.7000-10	7.1400-01	1.4300-01
-2.8	1.6800-04	1.7500-05	1.1900-01	5.6800-10	7.6100-01	1.1900-01
-2.6	2.9000-04	2.3700-05	9.8600-02	3.7000-10	8.0200-01	9.8600-02
-2.4	4.9000-04	3.1600-05	8.1000-02	2.4000-10	8.3700-01	8.1000-02
-2.2	8.1900-04	4.1600-05	6.6200-02	1.5600-10	8.6700-01	6.6200-02
-2.0	1.3500-03	5.4300-05	5.3800-02	1.0100-10	8.9100-01	5.3800-02
-1.8	2.2100-03	7.0500-05	4.3600-02	6.5200-11	9.1000-01	4.3700-02
-1.6	3.5900-03	9.0800-05	3.5200-02	4.2200-11	9.2600-01	3.5300-02
-1.4	5.7800-03	1.1600-04	2.8400-02	2.7300-11	9.3700-01	2.8500-02
-1.2	9.2200-03	1.4800-04	2.2800-02	1.7700-11	9.4500-01	2.3000-02
-1.0	1.4600-02	1.8700-04	1.8300-02	1.1500-11	9.4800-01	1.8500-02
-.8	2.2800-02	2.3500-04	1.4700-02	7.4500-12	9.4700-01	1.4900-02
-.6	3.5100-02	2.9100-04	1.1700-02	4.8600-12	9.4100-01	1.2000-02
-.4	5.3000-02	3.5600-04	9.3500-03	3.1800-12	9.2800-01	9.7100-03
-.2	7.8200-02	4.2700-04	7.4300-03	2.0800-12	9.0600-01	7.8600-03
.0	1.1200-01	5.0000-04	5.8700-03	1.3700-12	8.7500-01	6.3700-03
.2	1.5500-01	5.7100-04	4.6100-03	9.0300-13	8.3400-01	5.1900-03
.4	2.0800-01	6.3400-04	3.5900-03	5.9400-13	7.8400-01	4.2300-03
.6	2.6900-01	6.8300-04	2.7700-03	3.8900-13	7.2500-01	3.4500-03
.8	3.3500-01	7.1500-04	2.1100-03	2.5400-13	6.5900-01	2.8300-03
1.0	4.0600-01	7.2900-04	1.5900-03	1.6400-13	5.8900-01	2.3200-03
1.2	4.7800-01	7.2500-04	1.1800-03	1.0500-13	5.1800-01	1.9100-03
1.4	5.4800-01	7.0800-04	8.6700-04	6.6200-14	4.4800-01	1.5800-03
1.6	6.1600-01	6.8300-04	6.3000-04	4.1500-14	3.8100-01	1.3100-03
1.8	6.7900-01	6.5500-04	4.5500-04	2.5800-14	3.1900-01	1.1100-03
2.0	7.3700-01	6.3200-04	3.2700-04	1.6000-14	2.6100-01	9.5900-04
2.2	7.8900-01	6.2400-04	2.3600-04	9.9800-15	2.0900-01	8.6100-04

T= 10800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z#
-7.0	3.9935+00	4.7938+01	5.1932+01	1.2673+02	-4.8016+00	3.9939+00
-6.8	3.9898+00	4.7878+01	5.1868+01	1.2483+02	-4.6020+00	3.9904+00
-6.6	3.9841+00	4.7785+01	5.1769+01	1.2290+02	-4.4026+00	3.9848+00
-6.4	3.9753+00	4.7639+01	5.1614+01	1.2092+02	-4.2036+00	3.9762+00
-6.2	3.9616+00	4.7413+01	5.1374+01	1.1887+02	-4.0051+00	3.9627+00
-6.0	3.9408+00	4.7067+01	5.1008+01	1.1670+02	-3.8074+00	3.9422+00
-5.8	3.9096+00	4.6548+01	5.0458+01	1.1438+02	-3.6108+00	3.9113+00
-5.6	3.8640+00	4.5789+01	4.9653+01	1.1183+02	-3.4159+00	3.8661+00
-5.4	3.7996+00	4.4716+01	4.8515+01	1.0899+02	-3.2232+00	3.8022+00
-5.2	3.7130+00	4.3269+01	4.6982+01	1.0581+02	-3.0332+00	3.7160+00
-5.0	3.6028+00	4.1425+01	4.5028+01	1.0228+02	-2.8463+00	3.6062+00
-4.8	3.4708+00	3.9217+01	4.2688+01	9.8444+01	-2.6625+00	3.4746+00
-4.6	3.3227+00	3.6738+01	4.0061+01	9.4400+01	-2.4815+00	3.3268+00
-4.4	3.1665+00	3.4119+01	3.7286+01	9.0287+01	-2.3024+00	3.1707+00
-4.2	3.0103+00	3.1501+01	3.4511+01	8.6247+01	-2.1244+00	3.0146+00
-4.0	2.8613+00	2.9002+01	3.1864+01	8.2396+01	-1.9464+00	2.8656+00
-3.8	2.7245+00	2.6706+01	2.9431+01	7.8815+01	-1.7677+00	2.7287+00
-3.6	2.6027+00	2.4661+01	2.7264+01	7.5543+01	-1.5876+00	2.6067+00
-3.4	2.4968+00	2.2882+01	2.5379+01	7.2591+01	-1.4056+00	2.5005+00
-3.2	2.4065+00	2.1364+01	2.3771+01	6.9944+01	-1.2216+00	2.4100+00
-3.0	2.3306+00	2.0088+01	2.2418+01	6.7578+01	-1.0355+00	2.3338+00
-2.8	2.2675+00	1.9027+01	2.1294+01	6.5458+01	-8.4744-01	2.2704+00
-2.6	2.2154+00	1.8152+01	2.0367+01	6.3551+01	-6.5752-01	2.2181+00
-2.4	2.1727+00	1.7434+01	1.9607+01	6.1824+01	-4.6598-01	2.1751+00
-2.2	2.1376+00	1.6847+01	1.8985+01	6.0245+01	-2.7305-01	2.1398+00
-2.0	2.1087+00	1.6366+01	1.8475+01	5.8786+01	-7.8959-02	2.1107+00
-1.8	2.0845+00	1.5968+01	1.8053+01	5.7423+01	1.1603-01	2.0863+00
-1.6	2.0637+00	1.5633+01	1.7697+01	5.6132+01	3.1168-01	2.0653+00
-1.4	2.0449+00	1.5340+01	1.7385+01	5.4893+01	5.0769-01	2.0462+00
-1.2	2.0264+00	1.5068+01	1.7094+01	5.3684+01	7.0375-01	2.0276+00
-1.0	2.0066+00	1.4794+01	1.6801+01	5.2482+01	8.9948-01	2.0075+00
-.8	1.9833+00	1.4493+01	1.6476+01	5.1262+01	1.0944+00	1.9839+00
-.6	1.9541+00	1.4136+01	1.6090+01	4.9997+01	1.2880+00	1.9543+00
-.4	1.9165+00	1.3693+01	1.5610+01	4.8663+01	1.4795+00	1.9163+00
-.2	1.8687+00	1.3142+01	1.5010+01	4.7240+01	1.6686+00	1.8678+00
.0	1.8099+00	1.2473+01	1.4283+01	4.5723+01	1.8547+00	1.8080+00
.2	1.7414+00	1.1696+01	1.3437+01	4.4128+01	2.0379+00	1.7381+00
.4	1.6661+00	1.0842+01	1.2508+01	4.2490+01	2.2187+00	1.6608+00
.6	1.5883+00	9.9535+00	1.1542+01	4.0852+01	2.3979+00	1.5801+00
.8	1.5125+00	9.0745+00	1.0587+01	3.9259+01	2.5767+00	1.5000+00
1.0	1.4428+00	8.2417+00	9.6845+00	3.7746+01	2.7562+00	1.4240+00
1.2	1.3827+00	7.4800+00	8.8627+00	3.6334+01	2.9377+00	1.3544+00
1.4	1.3349+00	6.8027+00	8.1376+00	3.5032+01	3.1225+00	1.2924+00
1.6	1.3025+00	6.2132+00	7.5157+00	3.3836+01	3.3118+00	1.2382+00
1.8	1.2892+00	5.7085+00	6.9977+00	3.2735+01	3.5073+00	1.1915+00
2.0	1.3008+00	5.2821+00	6.5829+00	3.1713+01	3.7112+00	1.1518+00
2.2	1.3465+00	4.9261+00	6.2726+00	3.0749+01	3.9262+00	1.1180+00

T= 10900

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.0200-14	1.2900-11	4.9900-01	6.5100-06	1.3100-03	4.9900-01
-6.8	1.9900-13	3.2400-11	4.9900-01	4.1100-06	2.0700-03	4.9900-01
-6.6	7.8400-13	8.0900-11	4.9800-01	2.6000-06	3.2700-03	4.9800-01
-6.4	3.0800-12	2.0100-10	4.9700-01	1.6400-06	5.1600-03	4.9700-01
-6.2	1.2000-11	4.9800-10	4.9600-01	1.0400-06	8.1000-03	4.9600-01
-6.0	4.6200-11	1.2200-09	4.9400-01	6.6000-07	1.2700-02	4.9400-01
-5.8	1.7500-10	2.9600-09	4.9000-01	4.2000-07	1.9600-02	4.9000-01
-5.6	6.4600-10	7.0500-09	4.8500-01	2.6800-07	3.0100-02	4.8500-01
-5.4	2.3000-09	1.6400-08	4.7700-01	1.7200-07	4.5500-02	4.7700-01
-5.2	7.8400-09	3.6800-08	4.6600-01	1.1100-07	6.7400-02	4.6600-01
-5.0	2.5200-08	7.9200-08	4.5100-01	7.2100-08	9.7200-02	4.5100-01
-4.8	7.5500-08	1.6200-07	4.3200-01	4.7300-08	1.3600-01	4.3200-01
-4.6	2.1000-07	3.1600-07	4.0800-01	3.1200-08	1.8400-01	4.0800-01
-4.4	5.4400-07	5.8100-07	3.8000-01	2.0700-08	2.4100-01	3.8000-01
-4.2	1.3100-06	1.0100-06	3.4800-01	1.3800-08	3.0400-01	3.4800-01
-4.0	2.9500-06	1.6900-06	3.1400-01	9.1800-09	3.7200-01	3.1400-01
-3.8	6.2800-06	2.6800-06	2.7900-01	6.1200-09	4.4200-01	2.7900-01
-3.6	1.2700-05	4.1100-06	2.4400-01	4.0700-09	5.1200-01	2.4400-01
-3.4	2.4600-05	6.0900-06	2.1100-01	2.6900-09	5.7800-01	2.1100-01
-3.2	4.6000-05	8.7700-06	1.8000-01	1.7800-09	6.4000-01	1.8000-01
-3.0	8.3400-05	1.2300-05	1.5200-01	1.1700-09	6.9600-01	1.5200-01
-2.8	1.4700-04	1.7000-05	1.2700-01	7.6500-10	7.4600-01	1.2700-01
-2.6	2.5500-04	2.3100-05	1.0500-01	4.9900-10	7.8900-01	1.0500-01
-2.4	4.3400-04	3.0900-05	8.6700-02	3.2500-10	8.2600-01	8.6700-02
-2.2	7.2900-04	4.0800-05	7.0900-02	2.1100-10	8.5700-01	7.1000-02
-2.0	1.2100-03	5.3500-05	5.7800-02	1.3700-10	8.8300-01	5.7800-02
-1.8	1.9800-03	6.9600-05	4.6900-02	8.8400-11	9.0400-01	4.6900-02
-1.6	3.2200-03	8.9900-05	3.7900-02	5.7200-11	9.2100-01	3.8000-02
-1.4	5.2000-03	1.1500-04	3.0600-02	3.7000-11	9.3300-01	3.0700-02
-1.2	8.3200-03	1.4700-04	2.4600-02	2.4000-11	9.4200-01	2.4700-02
-1.0	1.3200-02	1.8600-04	1.9800-02	1.5600-11	9.4700-01	1.9900-02
-.8	2.0700-02	2.3400-04	1.5800-02	1.0100-11	9.4700-01	1.6100-02
-.6	3.2000-02	2.9200-04	1.2700-02	6.6100-12	9.4200-01	1.3000-02
-.4	4.8500-02	3.5800-04	1.0100-02	4.3300-12	9.3100-01	1.0500-02
-.2	7.2000-02	4.3100-04	8.0500-03	2.8400-12	9.1100-01	8.4800-03
.0	1.0400-01	5.0800-04	6.3800-03	1.8700-12	8.8200-01	6.8900-03
.2	1.4500-01	5.8400-04	5.0200-03	1.2400-12	8.4400-01	5.6000-03
.4	1.9600-01	6.5300-04	3.9200-03	8.1400-13	7.9500-01	4.5700-03
.6	2.5500-01	7.0800-04	3.0300-03	5.3500-13	7.3800-01	3.7400-03
.8	3.2000-01	7.4700-04	2.3200-03	3.5000-13	6.7300-01	3.0600-03
1.0	3.9100-01	7.6600-04	1.7500-03	2.2700-13	6.0400-01	2.5100-03
1.2	4.6200-01	7.6800-04	1.3000-03	1.4600-13	5.3300-01	2.0700-03
1.4	5.3400-01	7.5400-04	9.6100-04	9.2800-14	4.6300-01	1.7200-03
1.6	6.0200-01	7.3100-04	7.0100-04	5.8500-14	3.9500-01	1.4300-03
1.8	6.6700-01	7.0500-04	5.0800-04	3.6700-14	3.3100-01	1.2100-03
2.0	7.2600-01	6.8400-04	3.6700-04	2.2900-14	2.7200-01	1.0500-03
2.2	7.8000-01	6.7900-04	2.6600-04	1.4400-14	2.1800-01	9.4500-04

T= 10900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9943+00	4.7574+01	5.1568+01	1.2681+02	-4.7975+00	3.9948+00
-6.8	3.9912+00	4.7523+01	5.1514+01	1.2492+02	-4.5979+00	3.9918+00
-6.6	3.9863+00	4.7443+01	5.1429+01	1.2300+02	-4.3984+00	3.9870+00
-6.4	3.9786+00	4.7318+01	5.1297+01	1.2104+02	-4.1992+00	3.9795+00
-6.2	3.9668+00	4.7124+01	5.1091+01	1.1902+02	-4.0005+00	3.9679+00
-6.0	3.9486+00	4.6827+01	5.0775+01	1.1690+02	-3.8025+00	3.9500+00
-5.8	3.9213+00	4.6376+01	5.0298+01	1.1463+02	-3.6055+00	3.9230+00
-5.6	3.8810+00	4.5711+01	4.9592+01	1.1217+02	-3.4100+00	3.8831+00
-5.4	3.8233+00	4.4760+01	4.8583+01	1.0944+02	-3.2165+00	3.8259+00
-5.2	3.7445+00	4.3455+01	4.7199+01	1.0640+02	-3.0256+00	3.7475+00
-5.0	3.6421+00	4.1759+01	4.5401+01	1.0300+02	-2.8376+00	3.6455+00
-4.8	3.5169+00	3.9684+01	4.3200+01	9.9274+01	-2.6528+00	3.5208+00
-4.6	3.3735+00	3.7303+01	4.0677+01	9.5307+01	-2.4709+00	3.3777+00
-4.4	3.2190+00	3.4739+01	3.7958+01	9.1224+01	-2.2912+00	3.2235+00
-4.2	3.0620+00	3.2130+01	3.5192+01	8.7169+01	-2.1130+00	3.0665+00
-4.0	2.9099+00	2.9603+01	3.2513+01	8.3267+01	-1.9351+00	2.9145+00
-3.8	2.7687+00	2.7253+01	3.0022+01	7.9610+01	-1.7567+00	2.7731+00
-3.6	2.6417+00	2.5140+01	2.7782+01	7.6252+01	-1.5771+00	2.6460+00
-3.4	2.5305+00	2.3288+01	2.5819+01	7.3210+01	-1.3958+00	2.5345+00
-3.2	2.4351+00	2.1699+01	2.4134+01	7.0477+01	-1.2125+00	2.4389+00
-3.0	2.3545+00	2.0356+01	2.2711+01	6.8032+01	-1.0271+00	2.3580+00
-2.8	2.2873+00	1.9236+01	2.1523+01	6.5844+01	-8.3966-01	2.2905+00
-2.6	2.2317+00	1.8310+01	2.0541+01	6.3878+01	-6.5034-01	2.2347+00
-2.4	2.1860+00	1.7549+01	1.9735+01	6.2100+01	-4.5932-01	2.1887+00
-2.2	2.1485+00	1.6926+01	1.9075+01	6.0479+01	-2.6683-01	2.1510+00
-2.0	2.1177+00	1.6416+01	1.8534+01	5.8987+01	-7.3111-02	2.1199+00
-1.8	2.0920+00	1.5995+01	1.8087+01	5.7597+01	1.2159-01	2.0940+00
-1.6	2.0701+00	1.5643+01	1.7713+01	5.6287+01	3.1702-01	2.0718+00
-1.4	2.0505+00	1.5338+01	1.7389+01	5.5033+01	5.1289-01	2.0521+00
-1.2	2.0318+00	1.5060+01	1.7092+01	5.3815+01	7.0891-01	2.0331+00
-1.0	2.0122+00	1.4787+01	1.6799+01	5.2611+01	9.0470-01	2.0132+00
-.8	1.9896+00	1.4493+01	1.6483+01	5.1395+01	1.0998+00	1.9904+00
-.6	1.9618+00	1.4151+01	1.6113+01	5.0143+01	1.2937+00	1.9622+00
-.4	1.9262+00	1.3730+01	1.5656+01	4.8827+01	1.4857+00	1.9260+00
-.2	1.8807+00	1.3207+01	1.5087+01	4.7426+01	1.6753+00	1.8798+00
.0	1.8242+00	1.2567+01	1.4391+01	4.5933+01	1.8621+00	1.8224+00
.2	1.7577+00	1.1817+01	1.3574+01	4.4358+01	2.0460+00	1.7544+00
.4	1.6836+00	1.0982+01	1.2666+01	4.2730+01	2.2273+00	1.6783+00
.6	1.6061+00	1.0104+01	1.1710+01	4.1094+01	2.4068+00	1.5979+00
.8	1.5298+00	9.2253+00	1.0755+01	3.9494+01	2.5857+00	1.5172+00
1.0	1.4590+00	8.3858+00	9.8448+00	3.7967+01	2.7651+00	1.4400+00
1.2	1.3973+00	7.6125+00	9.0097+00	3.6536+01	2.9463+00	1.3688+00
1.4	1.3478+00	6.9207+00	8.2685+00	3.5213+01	3.1306+00	1.3049+00
1.6	1.3136+00	6.3158+00	7.6294+00	3.3996+01	3.3195+00	1.2488+00
1.8	1.2987+00	5.7960+00	7.0947+00	3.2875+01	3.5145+00	1.2004+00
2.0	1.3088+00	5.3555+00	6.6643+00	3.1836+01	3.7179+00	1.1590+00
2.2	1.3531+00	4.9867+00	6.3398+00	3.0856+01	3.9324+00	1.1237+00

$\tau = 11000$ 

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.3700-14	1.0300-11	4.9900-01	8.7800-06	1.1300-03	4.9900-01
-6.8	1.3300-13	2.5700-11	4.9900-01	5.5400-06	1.7800-03	4.9900-01
-6.6	5.2700-13	6.4300-11	4.9900-01	3.5000-06	2.8200-03	4.9900-01
-6.4	2.0700-12	1.6000-10	4.9800-01	2.2100-06	4.4400-03	4.9800-01
-6.2	8.1000-12	3.9700-10	4.9700-01	1.4000-06	6.9900-03	4.9700-01
-6.0	3.1300-11	9.7800-10	4.9500-01	8.8900-07	1.0900-02	4.9500-01
-5.8	1.1900-10	2.3800-09	4.9100-01	5.6500-07	1.7000-02	4.9100-01
-5.6	4.4500-10	5.7100-09	4.8700-01	3.6000-07	2.6200-02	4.8700-01
-5.4	1.6100-09	1.3400-08	4.8000-01	2.3100-07	3.9800-02	4.8000-01
-5.2	5.5600-09	3.0400-08	4.7000-01	1.4900-07	5.9400-02	4.7000-01
-5.0	1.8200-08	6.6400-08	4.5700-01	9.6300-08	8.6500-02	4.5700-01
-4.8	5.5900-08	1.3800-07	4.3900-01	6.3000-08	1.2200-01	4.3900-01
-4.6	1.6000-07	2.7400-07	4.1600-01	4.1400-08	1.6700-01	4.1600-01
-4.4	4.2300-07	5.1300-07	3.8900-01	2.7500-08	2.2100-01	3.8900-01
-4.2	1.0400-06	9.1200-07	3.5900-01	1.8300-08	2.8300-01	3.5900-01
-4.0	2.4000-06	1.5400-06	3.2500-01	1.2200-08	3.5000-01	3.2500-01
-3.8	5.2000-06	2.4800-06	2.9000-01	8.1200-09	4.1900-01	2.9000-01
-3.6	1.0700-05	3.8500-06	2.5600-01	5.4000-09	4.8900-01	2.5600-01
-3.4	2.1000-05	5.7700-06	2.2200-01	3.5900-09	5.5700-01	2.2200-01
-3.2	3.9600-05	8.3800-06	1.9000-01	2.3700-09	6.2000-01	1.9000-01
-3.0	7.2500-05	1.1900-05	1.6100-01	1.5600-09	6.7800-01	1.6100-01
-2.8	1.2900-04	1.6500-05	1.3500-01	1.0200-09	7.3000-01	1.3500-01
-2.6	2.2500-04	2.2500-05	1.1200-01	6.6900-10	7.7500-01	1.1200-01
-2.4	3.8500-04	3.0200-05	9.2500-02	4.3600-10	8.1400-01	9.2600-02
-2.2	6.4900-04	4.0100-05	7.5900-02	2.8300-10	8.4700-01	7.5900-02
-2.0	1.0800-03	5.2700-05	6.1900-02	1.8400-10	8.7500-01	6.2000-02
-1.8	1.7800-03	6.8700-05	5.0300-02	1.1900-10	8.9700-01	5.0400-02
-1.6	2.9000-03	8.8900-05	4.0700-02	7.7100-11	9.1500-01	4.0800-02
-1.4	4.6800-03	1.1400-04	3.2900-02	5.0000-11	9.2900-01	3.3000-02
-1.2	7.5100-03	1.4600-04	2.6500-02	3.2400-11	9.3900-01	2.6600-02
-1.0	1.1900-02	1.8600-04	2.1300-02	2.1100-11	9.4500-01	2.1500-02
-.8	1.8800-02	2.3400-04	1.7100-02	1.3700-11	9.4700-01	1.7300-02
-.6	2.9100-02	2.9200-04	1.3700-02	8.9500-12	9.4300-01	1.4000-02
-.4	4.4400-02	3.5900-04	1.0900-02	5.8700-12	9.3300-01	1.1300-02
-.2	6.6300-02	4.3500-04	8.7100-03	3.8600-12	9.1500-01	9.1500-03
.0	9.6200-02	5.1600-04	6.9100-03	2.5400-12	8.8900-01	7.4300-03
.2	1.3500-01	5.9700-04	5.4500-03	1.6800-12	8.5300-01	6.0500-03
.4	1.8400-01	6.7100-04	4.2600-03	1.1100-12	8.0600-01	4.9300-03
.6	2.4100-01	7.3400-04	3.3000-03	7.3200-13	7.5000-01	4.0400-03
.8	3.0600-01	7.7900-04	2.5300-03	4.8000-13	6.8700-01	3.3100-03
1.0	3.7600-01	8.0400-04	1.9200-03	3.1300-13	6.1900-01	2.7200-03
1.2	4.4700-01	8.1100-04	1.4400-03	2.0200-13	5.4800-01	2.2500-03
1.4	5.1900-01	8.0200-04	1.0600-03	1.2900-13	4.7700-01	1.8600-03
1.6	5.8900-01	7.8100-04	7.7800-04	8.2100-14	4.0800-01	1.5600-03
1.8	6.5400-01	7.5700-04	5.6600-04	5.1800-14	3.4300-01	1.3200-03
2.0	7.1500-01	7.3800-04	4.1000-04	3.2700-14	2.8300-01	1.1500-03
2.2	7.7100-01	7.3700-04	2.9800-04	2.0800-14	2.2700-01	1.0400-03

T= 11000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9951+00	4.7214+01	5.1209+01	1.2688+02	-4.7935+00	3.9956+00
-6.8	3.9923+00	4.7170+01	5.1163+01	1.2500+02	-4.5938+00	3.9929+00
-6.6	3.9881+00	4.7102+01	5.1090+01	1.2309+02	-4.3942+00	3.9888+00
-6.4	3.9814+00	4.6995+01	5.0976+01	1.2115+02	-4.1950+00	3.9823+00
-6.2	3.9712+00	4.6828+01	5.0800+01	1.1915+02	-3.9961+00	3.9723+00
-6.0	3.9554+00	4.6572+01	5.0527+01	1.1707+02	-3.7978+00	3.9568+00
-5.8	3.9314+00	4.6181+01	5.0113+01	1.1486+02	-3.6005+00	3.9331+00
-5.6	3.8958+00	4.5599+01	4.9495+01	1.1248+02	-3.4044+00	3.8979+00
-5.4	3.8443+00	4.4757+01	4.8602+01	1.0985+02	-3.2102+00	3.8469+00
-5.2	3.7728+00	4.3585+01	4.7358+01	1.0692+02	-3.0183+00	3.7758+00
-5.0	3.6782+00	4.2033+01	4.5711+01	1.0366+02	-2.8294+00	3.6817+00
-4.8	3.5602+00	4.0095+01	4.3655+01	1.0005+02	-2.6435+00	3.5642+00
-4.6	3.4221+00	3.7824+01	4.1246+01	9.6170+01	-2.4607+00	3.4264+00
-4.4	3.2703+00	3.5328+01	3.8598+01	9.2133+01	-2.2804+00	3.2750+00
-4.2	3.1133+00	3.2741+01	3.5855+01	8.8077+01	-2.1018+00	3.1181+00
-4.0	2.9589+00	3.0198+01	3.3157+01	8.4135+01	-1.9239+00	2.9637+00
-3.8	2.8136+00	2.7804+01	3.0617+01	8.0412+01	-1.7457+00	2.8184+00
-3.6	2.6817+00	2.5628+01	2.8310+01	7.6971+01	-1.5666+00	2.6863+00
-3.4	2.5653+00	2.3706+01	2.6271+01	7.3842+01	-1.3859+00	2.5697+00
-3.2	2.4647+00	2.2046+01	2.4511+01	7.1024+01	-1.2032+00	2.4689+00
-3.0	2.3794+00	2.0637+01	2.3017+01	6.8501+01	-1.0185+00	2.3833+00
-2.8	2.3080+00	1.9457+01	2.1765+01	6.6242+01	-8.3177-01	2.3116+00
-2.6	2.2488+00	1.8479+01	2.0727+01	6.4214+01	-6.4305-01	2.2521+00
-2.4	2.2001+00	1.7673+01	1.9873+01	6.2385+01	-4.5257-01	2.2030+00
-2.2	2.1600+00	1.7013+01	1.9173+01	6.0722+01	-2.6055-01	2.1627+00
-2.0	2.1271+00	1.6473+01	1.8600+01	5.9194+01	-6.7217-02	2.1295+00
-1.8	2.0998+00	1.6028+01	1.8128+01	5.7776+01	1.2717-01	2.1020+00
-1.6	2.0767+00	1.5657+01	1.7734+01	5.6444+01	3.2236-01	2.0786+00
-1.4	2.0563+00	1.5340+01	1.7396+01	5.5175+01	5.1809-01	2.0580+00
-1.2	2.0372+00	1.5055+01	1.7092+01	5.3947+01	7.1403-01	2.0387+00
-1.0	2.0177+00	1.4780+01	1.6798+01	5.2739+01	9.0985-01	2.0189+00
-.8	1.9958+00	1.4492+01	1.6487+01	5.1526+01	1.1051+00	1.9966+00
-.6	1.9691+00	1.4162+01	1.6131+01	5.0283+01	1.2993+00	1.9696+00
-.4	1.9352+00	1.3761+01	1.5696+01	4.8983+01	1.4917+00	1.9352+00
-.2	1.8919+00	1.3263+01	1.5155+01	4.7604+01	1.6819+00	1.8912+00
.0	1.8378+00	1.2652+01	1.4490+01	4.6133+01	1.8693+00	1.8360+00
.2	1.7733+00	1.1929+01	1.3702+01	4.4578+01	2.0538+00	1.7700+00
.4	1.7006+00	1.1115+01	1.2815+01	4.2964+01	2.2356+00	1.6953+00
.6	1.6236+00	1.0248+01	1.1872+01	4.1332+01	2.4155+00	1.6153+00
.8	1.5470+00	9.3723+00	1.0919+01	3.9726+01	2.5945+00	1.5343+00
1.0	1.4752+00	8.5277+00	1.0003+01	3.8186+01	2.7738+00	1.4560+00
1.2	1.4120+00	7.7439+00	9.1558+00	3.6738+01	2.9548+00	1.3832+00
1.4	1.3608+00	7.0385+00	8.3993+00	3.5394+01	3.1388+00	1.3175+00
1.6	1.3249+00	6.4187+00	7.7437+00	3.4157+01	3.3272+00	1.2596+00
1.8	1.3083+00	5.8842+00	7.1925+00	3.3017+01	3.5217+00	1.2094+00
2.0	1.3169+00	5.4296+00	6.7465+00	3.1959+01	3.7246+00	1.1663+00
2.2	1.3599+00	5.0481+00	6.4080+00	3.0963+01	3.9385+00	1.1296+00

T= 11100

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.2700-14	8.2000-12	4.9900-01	1.1800-05	9.7300-04	5.0000-01
-6.8	9.0100-14	2.0500-11	4.9900-01	7.4300-06	1.5400-03	4.9900-01
-6.6	3.5600-13	5.1300-11	4.9900-01	4.7000-06	2.4300-03	4.9900-01
-6.4	1.4000-12	1.2800-10	4.9800-01	2.9700-06	3.8400-03	4.9800-01
-6.2	5.5000-12	3.1800-10	4.9700-01	1.8800-06	6.0400-03	4.9700-01
-6.0	2.1400-11	7.8400-10	4.9500-01	1.1900-06	9.4700-03	4.9500-01
-5.8	8.1800-11	1.9200-09	4.9300-01	7.5600-07	1.4800-02	4.9300-01
-5.6	3.0700-10	4.6200-09	4.8900-01	4.8100-07	2.2800-02	4.8900-01
-5.4	1.1200-09	1.0900-08	4.8300-01	3.0800-07	3.4800-02	4.8300-01
-5.2	3.9400-09	2.5100-08	4.7400-01	1.9800-07	5.2300-02	4.7400-01
-5.0	1.3200-08	5.5600-08	4.6200-01	1.2800-07	7.6800-02	4.6200-01
-4.8	4.1300-08	1.1800-07	4.4500-01	8.3500-08	1.1000-01	4.4500-01
-4.6	1.2100-07	2.3700-07	4.2400-01	5.4900-08	1.5200-01	4.2400-01
-4.4	3.2800-07	4.5200-07	3.9900-01	3.6300-08	2.0300-01	3.9900-01
-4.2	8.2600-07	8.1600-07	3.6900-01	2.4100-08	2.6200-01	3.6900-01
-4.0	1.9400-06	1.4000-06	3.3600-01	1.6100-08	3.2800-01	3.3600-01
-3.8	4.2900-06	2.2900-06	3.0200-01	1.0700-08	3.9600-01	3.0200-01
-3.6	8.9600-06	3.6000-06	2.6700-01	7.1400-09	4.6600-01	2.6700-01
-3.4	1.7800-05	5.4500-06	2.3300-01	4.7500-09	5.3500-01	2.3300-01
-3.2	3.4100-05	7.9900-06	2.0000-01	3.1400-09	6.0000-01	2.0000-01
-3.0	6.3100-05	1.1400-05	1.7000-01	2.0700-09	6.6000-01	1.7000-01
-2.8	1.1300-04	1.5900-05	1.4300-01	1.3600-09	7.1400-01	1.4300-01
-2.6	1.9900-04	2.1900-05	1.1900-01	8.9100-10	7.6100-01	1.1900-01
-2.4	3.4200-04	2.9500-05	9.8600-01	5.8200-10	8.0200-01	9.8700-02
-2.2	5.7800-04	3.9300-05	8.1100-02	3.7900-10	8.3700-01	8.1100-02
-2.0	9.6600-04	5.1800-05	6.6200-02	2.4600-10	8.6600-01	6.6300-02
-1.8	1.5900-03	6.7800-05	5.3900-02	1.6000-10	8.9000-01	5.4000-02
-1.6	2.6100-03	8.7900-05	4.3700-02	1.0300-10	9.1000-01	4.3800-02
-1.4	4.2300-03	1.1300-04	3.5300-02	6.7100-11	9.2500-01	3.5400-02
-1.2	6.7900-03	1.4500-04	2.8500-02	4.3600-11	9.3600-01	2.8600-02
-1.0	1.0800-02	1.8500-04	2.2900-02	2.8300-11	9.4300-01	2.3100-02
-.8	1.7100-02	2.3300-04	1.8400-02	1.8500-11	9.4600-01	1.8600-02
-.6	2.6600-02	2.9200-04	1.4800-02	1.2100-11	9.4300-01	1.5000-02
-.4	4.0700-02	3.6100-04	1.1800-02	7.9100-12	9.3500-01	1.2200-02
-.2	6.1000-02	4.3900-04	9.4100-03	5.2000-12	9.1900-01	9.8500-03
.0	8.9200-02	5.2300-04	7.4800-03	3.4400-12	8.9500-01	8.0000-03
.2	1.2600-01	6.0800-04	5.9100-03	2.2700-12	8.6100-01	6.5100-03
.4	1.7300-01	6.8900-04	4.6300-03	1.5100-12	8.1600-01	5.3200-03
.6	2.2900-01	7.5800-04	3.6000-03	9.9500-13	7.6300-01	4.3600-03
.8	2.9200-01	8.1000-04	2.7700-03	6.5500-13	7.0100-01	3.5800-03
1.0	3.6100-01	8.4200-04	2.1000-03	4.2900-13	6.3300-01	2.9500-03
1.2	4.3300-01	8.5500-04	1.5800-03	2.7800-13	5.6300-01	2.4400-03
1.4	5.0500-01	8.5000-04	1.1700-03	1.7900-13	4.9100-01	2.0200-03
1.6	5.7500-01	8.3300-04	8.6200-04	1.1500-13	4.2200-01	1.7000-03
1.8	6.4200-01	8.1200-04	6.2900-04	7.2800-14	3.5500-01	1.4400-03
2.0	7.0400-01	7.9600-04	4.5800-04	4.6400-14	2.9300-01	1.2500-03
2.2	7.6200-01	7.9900-04	3.3400-04	2.9800-14	2.3600-01	1.1300-03



T= 11100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9957+00	4.6859+01	5.0855+01	1.2695+02	-4.7895+00	3.9962+00
-6.8	3.9933+00	4.6821+01	5.0815+01	1.2507+02	-4.5897+00	3.9939+00
-6.6	3.9896+00	4.6762+01	5.0752+01	1.2318+02	-4.3901+00	3.9903+00
-6.4	3.9839+00	4.6670+01	5.0654+01	1.2125+02	-4.1908+00	3.9847+00
-6.2	3.9749+00	4.6527+01	5.0502+01	1.1927+02	-3.9918+00	3.9760+00
-6.0	3.9611+00	4.6306+01	5.0267+01	1.1722+02	-3.7933+00	3.9625+00
-5.8	3.9401+00	4.5967+01	4.9907+01	1.1506+02	-3.5956+00	3.9418+00
-5.6	3.9087+00	4.5458+01	4.9367+01	1.1275+02	-3.3990+00	3.9108+00
-5.4	3.8628+00	4.4715+01	4.8578+01	1.1021+02	-3.2042+00	3.8653+00
-5.2	3.7981+00	4.3665+01	4.7463+01	1.0740+02	-3.0115+00	3.8012+00
-5.0	3.7112+00	4.2252+01	4.5963+01	1.0426+02	-2.8216+00	3.7148+00
-4.8	3.6006+00	4.0451+01	4.4052+01	1.0077+02	-2.6347+00	3.6047+00
-4.6	3.4684+00	3.8298+01	4.1766+01	9.6989+01	-2.4510+00	3.4729+00
-4.4	3.3202+00	3.5882+01	3.9202+01	9.3010+01	-2.2699+00	3.3251+00
-4.2	3.1640+00	3.3333+01	3.6497+01	8.8967+01	-2.0908+00	3.1691+00
-4.0	3.0079+00	3.0785+01	3.3793+01	8.4998+01	-1.9128+00	3.0131+00
-3.8	2.8592+00	2.8355+01	3.1214+01	8.1217+01	-1.7348+00	2.8643+00
-3.6	2.7227+00	2.6123+01	2.8846+01	7.7701+01	-1.5561+00	2.7277+00
-3.4	2.6012+00	2.4135+01	2.6736+01	7.4487+01	-1.3759+00	2.6059+00
-3.2	2.4955+00	2.2406+01	2.4902+01	7.1585+01	-1.1939+00	2.5000+00
-3.0	2.4054+00	2.0931+01	2.3336+01	6.8982+01	-1.0099+00	2.4096+00
-2.8	2.3297+00	1.9690+01	2.2020+01	6.6652+01	-8.2378-01	2.3336+00
-2.6	2.2667+00	1.8658+01	2.0925+01	6.4562+01	-6.3568-01	2.2703+00
-2.4	2.2148+00	1.7807+01	2.0022+01	6.2680+01	-4.4575-01	2.2180+00
-2.2	2.1721+00	1.7109+01	1.9281+01	6.0972+01	-2.5420-01	2.1750+00
-2.0	2.1370+00	1.6537+01	1.8674+01	5.9407+01	-6.1272-02	2.1397+00
-1.8	2.1080+00	1.6067+01	1.8175+01	5.7960+01	1.3279-01	2.1104+00
-1.6	2.0836+00	1.5676+01	1.7760+01	5.6605+01	3.2773-01	2.0857+00
-1.4	2.0623+00	1.5345+01	1.7407+01	5.5318+01	5.2327-01	2.0642+00
-1.2	2.0427+00	1.5051+01	1.7094+01	5.4080+01	7.1913-01	2.0443+00
-1.0	2.0231+00	1.4774+01	1.6797+01	5.2866+01	9.1495-01	2.0245+00
-.8	2.0017+00	1.4489+01	1.6490+01	5.1654+01	1.1103+00	2.0027+00
-.6	1.9760+00	1.4169+01	1.6145+01	5.0419+01	1.3047+00	1.9766+00
-.4	1.9438+00	1.3787+01	1.5730+01	4.9133+01	1.4976+00	1.9438+00
-.2	1.9025+00	1.3313+01	1.5215+01	4.7773+01	1.6882+00	1.9018+00
.0	1.8507+00	1.2729+01	1.4580+01	4.6325+01	1.8763+00	1.8490+00
.2	1.7882+00	1.2032+01	1.3821+01	4.4790+01	2.0613+00	1.7850+00
.4	1.7170+00	1.1240+01	1.2957+01	4.3190+01	2.2437+00	1.7117+00
.6	1.6408+00	1.0386+01	1.2027+01	4.1564+01	2.4240+00	1.6324+00
.8	1.5640+00	9.5152+00	1.1079+01	3.9955+01	2.6032+00	1.5512+00
1.0	1.4913+00	8.6671+00	1.0158+01	3.8403+01	2.7825+00	1.4719+00
1.2	1.4267+00	7.8741+00	9.3008+00	3.6939+01	2.9633+00	1.3977+00
1.4	1.3739+00	7.1560+00	8.5299+00	3.5576+01	3.1469+00	1.3303+00
1.6	1.3364+00	6.5219+00	7.8583+00	3.4319+01	3.3348+00	1.2705+00
1.8	1.3182+00	5.9728+00	7.2910+00	3.3159+01	3.5289+00	1.2186+00
2.0	1.3252+00	5.5044+00	6.8297+00	3.2083+01	3.7312+00	1.1738+00
2.2	1.3668+00	5.1102+00	6.4770+00	3.1071+01	3.9446+00	1.1356+00

T= 11200

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.5400-14	6.5600-12	5.0000-01	1.5700-05	8.4100-04	5.0000-01
-6.8	5.1300-14	1.6400-11	4.9900-01	9.9200-06	1.3300-03	4.9900-01
-6.6	2.4200-13	4.1100-11	4.9900-01	6.2600-06	2.1000-03	4.9900-01
-6.4	9.5700-13	1.0300-10	4.9800-01	3.9600-06	3.3200-03	4.9800-01
-6.2	3.7600-12	2.5500-10	4.9700-01	2.5000-06	5.2300-03	4.9700-01
-6.0	1.4600-11	6.3100-10	4.9600-01	1.5900-06	8.2100-03	4.9600-01
-5.8	5.6300-11	1.5500-09	4.9400-01	1.0100-06	1.2800-02	4.9400-01
-5.6	2.1300-10	3.7500-09	4.9000-01	6.4000-07	1.9900-02	4.9000-01
-5.4	7.8600-10	8.9300-09	4.8500-01	4.0900-07	3.0500-02	4.8500-01
-5.2	2.8000-09	2.0700-08	4.7700-01	2.6200-07	4.6100-02	4.7700-01
-5.0	9.5100-09	4.6500-08	4.6600-01	1.6900-07	6.8200-02	4.6600-01
-4.8	3.0500-08	9.9900-08	4.5100-01	1.1000-07	9.8300-02	4.5100-01
-4.6	9.1100-08	2.0400-07	4.3100-01	7.2300-08	1.3700-01	4.3100-01
-4.4	2.5300-07	3.9700-07	4.0700-01	4.7700-08	1.8600-01	4.0700-01
-4.2	6.5300-07	7.2900-07	3.7900-01	3.1700-08	2.4300-01	3.7900-01
-4.0	1.5700-06	1.2700-06	3.4700-01	2.1100-08	3.0600-01	3.4700-01
-3.8	3.5300-06	2.1100-06	3.1300-01	1.4100-08	3.7400-01	3.1300-01
-3.6	7.5000-06	3.3500-06	2.7800-01	9.3900-09	4.4400-01	2.7800-01
-3.4	1.5100-05	5.1300-06	2.4300-01	6.2500-09	5.1300-01	2.4300-01
-3.2	2.9300-05	7.6000-06	2.1000-01	4.1400-09	5.8000-01	2.1000-01
-3.0	5.4700-05	1.0900-05	1.7900-01	2.7400-09	6.4100-01	1.7900-01
-2.8	9.9200-05	1.5400-05	1.5100-01	1.8000-09	6.9700-01	1.5100-01
-2.6	1.7500-04	2.1200-05	1.2700-01	1.1800-09	7.4700-01	1.2700-01
-2.4	3.0300-04	2.8800-05	1.0500-01	7.7200-10	7.9000-01	1.0500-01
-2.2	5.1500-04	3.8500-05	8.6400-02	5.0300-10	8.2700-01	8.6500-02
-2.0	8.6400-04	5.1000-05	7.0800-02	3.2700-10	8.5800-01	7.0800-02
-1.8	1.4300-03	6.6800-05	5.7700-02	2.1300-10	8.8300-01	5.7700-02
-1.6	2.3500-03	8.6900-05	4.6800-02	1.3800-10	9.0400-01	4.6900-02
-1.4	3.8100-03	1.1200-04	3.7900-02	8.9700-11	9.2000-01	3.8000-02
-1.2	6.1500-03	1.4400-04	3.0600-02	5.8300-11	9.3200-01	3.0700-02
-1.0	9.8100-03	1.8400-04	2.4600-02	3.7900-11	9.4100-01	2.4800-02
-.8	1.5500-02	2.3300-04	1.9800-02	2.4700-11	9.4400-01	2.0000-02
-.6	2.4200-02	2.9200-04	1.5900-02	1.6200-11	9.4300-01	1.6200-02
-.4	3.7300-02	3.6200-04	1.2700-02	1.0600-11	9.3700-01	1.3100-02
-.2	5.6200-02	4.4200-04	1.0200-02	6.9900-12	9.2300-01	1.0600-02
.0	8.2600-02	5.2900-04	8.0800-03	4.6200-12	9.0000-01	8.6000-03
.2	1.1800-01	6.2000-04	6.3900-03	3.0600-12	8.6800-01	7.0100-03
.4	1.6300-01	7.0600-04	5.0200-03	2.0300-12	8.2600-01	5.7300-03
.6	2.1700-01	7.8200-04	3.9100-03	1.3500-12	7.7400-01	4.7000-03
.8	2.7800-01	8.4200-04	3.0200-03	8.9000-13	7.1400-01	3.8600-03
1.0	3.4600-01	8.8100-04	2.3000-03	5.8500-13	6.4700-01	3.1800-03
1.2	4.1800-01	9.0000-04	1.7300-03	3.8100-13	5.7700-01	2.6300-03
1.4	4.9000-01	9.0000-04	1.2900-03	2.4700-13	5.0500-01	2.1900-03
1.6	5.6100-01	8.8700-04	9.5300-04	1.5900-13	4.3500-01	1.8400-03
1.8	6.2900-01	8.6900-04	6.9800-04	1.0200-13	3.6700-01	1.5700-03
2.0	6.9300-01	8.5700-04	5.1000-04	6.5400-14	3.0400-01	1.3700-03
2.2	7.5200-01	8.6500-04	3.7400-04	4.2600-14	2.4600-01	1.2400-03

T= 11200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9963+00	4.6509+01	5.0506+01	1.2702+02	-4.7855+00	3.9967+00
-6.8	3.9942+00	4.6477+01	5.0471+01	1.2515+02	-4.5858+00	3.9947+00
-6.6	3.9909+00	4.6426+01	5.0417+01	1.2326+02	-4.3861+00	3.9917+00
-6.4	3.9859+00	4.6347+01	5.0332+01	1.2134+02	-4.1867+00	3.9868+00
-6.2	3.9781+00	4.6223+01	5.0201+01	1.1938+02	-3.9875+00	3.9792+00
-6.0	3.9661+00	4.6031+01	4.9997+01	1.1736+02	-3.7888+00	3.9674+00
-5.8	3.9476+00	4.5737+01	4.9685+01	1.1525+02	-3.5908+00	3.9493+00
-5.6	3.9199+00	4.5293+01	4.9213+01	1.1299+02	-3.3939+00	3.9220+00
-5.4	3.8790+00	4.4637+01	4.8516+01	1.1054+02	-3.1985+00	3.8816+00
-5.2	3.8207+00	4.3700+01	4.7521+01	1.0783+02	-3.0050+00	3.8238+00
-5.0	3.7411+00	4.2418+01	4.6159+01	1.0480+02	-2.8142+00	3.7448+00
-4.8	3.6380+00	4.0755+01	4.4392+01	1.0144+02	-2.6263+00	3.6422+00
-4.6	3.5122+00	3.8724+01	4.2236+01	9.7760+01	-2.4416+00	3.5169+00
-4.4	3.3683+00	3.6399+01	3.9768+01	9.3851+01	-2.2598+00	3.3734+00
-4.2	3.2138+00	3.3899+01	3.7113+01	8.9835+01	-2.0802+00	3.2191+00
-4.0	3.0569+00	3.1360+01	3.4417+01	8.5852+01	-1.9019+00	3.0623+00
-3.8	2.9052+00	2.8904+01	3.1809+01	8.2023+01	-1.7240+00	2.9107+00
-3.6	2.7644+00	2.6623+01	2.9387+01	7.8437+01	-1.5456+00	2.7698+00
-3.4	2.6380+00	2.4572+01	2.7210+01	7.5143+01	-1.3659+00	2.6431+00
-3.2	2.5273+00	2.2777+01	2.5304+01	7.2159+01	-1.1845+00	2.5322+00
-3.0	2.4324+00	2.1236+01	2.3668+01	6.9476+01	-1.0011+00	2.4370+00
-2.8	2.3523+00	1.9934+01	2.2287+01	6.7074+01	-8.1569-01	2.3565+00
-2.6	2.2855+00	1.8849+01	2.1134+01	6.4921+01	-6.2821-01	2.2894+00
-2.4	2.2302+00	1.7951+01	2.0181+01	6.2983+01	-4.3884-01	2.2338+00
-2.2	2.1847+00	1.7213+01	1.9397+01	6.1229+01	-2.4779-01	2.1880+00
-2.0	2.1474+00	1.6608+01	1.8755+01	5.9627+01	-5.5277-02	2.1503+00
-1.8	2.1165+00	1.6111+01	1.8228+01	5.8149+01	1.3844-01	2.1192+00
-1.6	2.0907+00	1.5700+01	1.7791+01	5.6769+01	3.3311-01	2.0931+00
-1.4	2.0684+00	1.5353+01	1.7422+01	5.5465+01	5.2846-01	2.0705+00
-1.2	2.0483+00	1.5050+01	1.7098+01	5.4213+01	7.2420-01	2.0501+00
-1.0	2.0286+00	1.4768+01	1.6797+01	5.2993+01	9.2001-01	2.0301+00
-.8	2.0074+00	1.4485+01	1.6493+01	5.1781+01	1.1155+00	2.0086+00
-.6	1.9827+00	1.4175+01	1.6157+01	5.0551+01	1.3101+00	1.9834+00
-.4	1.9519+00	1.3808+01	1.5760+01	4.9278+01	1.5033+00	1.9521+00
-.2	1.9126+00	1.3357+01	1.5269+01	4.7937+01	1.6944+00	1.9120+00
.0	1.8629+00	1.2799+01	1.4662+01	4.6510+01	1.8830+00	1.8613+00
.2	1.8026+00	1.2129+01	1.3932+01	4.4995+01	2.0687+00	1.7995+00
.4	1.7331+00	1.1359+01	1.3092+01	4.3411+01	2.2516+00	1.7278+00
.6	1.6577+00	1.0521+01	1.2179+01	4.1792+01	2.4323+00	1.6493+00
.8	1.5809+00	9.6556+00	1.1237+01	4.0181+01	2.6117+00	1.5681+00
1.0	1.5075+00	8.8055+00	1.0313+01	3.8620+01	2.7911+00	1.4880+00
1.2	1.4417+00	8.0043+00	9.4460+00	3.7140+01	2.9717+00	1.4123+00
1.4	1.3873+00	7.2743+00	8.6616+00	3.5759+01	3.1550+00	1.3432+00
1.6	1.3481+00	6.6263+00	7.9744+00	3.4482+01	3.3425+00	1.2817+00
1.8	1.3282+00	6.0629+00	7.3911+00	3.3303+01	3.5361+00	1.2280+00
2.0	1.3338+00	5.5807+00	6.9144+00	3.2209+01	3.7379+00	1.1816+00
2.2	1.3740+00	5.1736+00	6.5475+00	3.1180+01	3.9508+00	1.1418+00

T= 11300

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0600-14	5.2700-12	5.0000-01	2.0800-05	7.2900-04	5.0000-01
-6.8	4.2000-14	1.3200-11	4.9900-01	1.3200-05	1.1500-03	4.9900-01
-6.6	1.6600-13	3.3100-11	4.9900-01	8.3100-06	1.8200-03	4.9900-01
-6.4	6.5700-13	8.2600-11	4.9900-01	5.2500-06	2.8800-03	4.9900-01
-6.2	2.5800-12	2.0600-10	4.9800-01	3.3200-06	4.5400-03	4.9800-01
-6.0	1.0100-11	5.1000-10	4.9600-01	2.1000-06	7.1400-03	4.9600-01
-5.8	3.9000-11	1.2500-09	4.9400-01	1.3300-06	1.1200-02	4.9400-01
-5.6	1.4800-10	3.0500-09	4.9100-01	8.4800-07	1.7400-02	4.9100-01
-5.4	5.5300-10	7.3100-09	4.8700-01	5.4100-07	2.6700-02	4.8700-01
-5.2	1.9900-09	1.7100-08	4.8000-01	3.4700-07	4.0600-02	4.8000-01
-5.0	6.8700-09	3.8800-08	4.7000-01	2.2300-07	6.0500-02	4.7000-01
-4.8	2.2400-08	8.4600-08	4.5600-01	1.4500-07	8.7900-02	4.5600-01
-4.6	6.8600-08	1.7600-07	4.3800-01	9.4900-08	1.2400-01	4.3800-01
-4.4	1.9500-07	3.4700-07	4.1500-01	6.2500-08	1.7000-01	4.1500-01
-4.2	5.1500-07	6.4900-07	3.8800-01	4.1400-08	2.2400-01	3.8800-01
-4.0	1.2600-06	1.1500-06	3.5700-01	2.7600-08	2.8600-01	3.5700-01
-3.8	2.9000-06	1.9400-06	3.2400-01	1.8400-08	3.5300-01	3.2400-01
-3.6	6.2700-06	3.1200-06	2.8900-01	1.2300-08	4.2200-01	2.8900-01
-3.4	1.2900-05	4.8300-06	2.5400-01	8.1900-09	4.9200-01	2.5400-01
-3.2	2.5200-05	7.2200-06	2.2000-01	5.4400-09	5.5900-01	2.2000-01
-3.0	4.7600-05	1.0500-05	1.8900-01	3.6000-09	6.2200-01	1.8900-01
-2.8	8.6900-05	1.4900-05	1.6000-01	2.3700-09	6.8000-01	1.6000-01
-2.6	1.5500-04	2.0600-05	1.3400-01	1.5600-09	7.3200-01	1.3400-01
-2.4	2.6900-04	2.8100-05	1.1100-01	1.0200-09	7.7700-01	1.1100-01
-2.2	4.6000-04	3.7700-05	9.2000-02	6.6600-10	8.1500-01	9.2000-02
-2.0	7.7500-04	5.0100-05	7.5500-02	4.3400-10	8.4800-01	7.5500-02
-1.8	1.2900-03	6.5900-05	6.1600-02	2.8200-10	8.7500-01	6.1700-02
-1.6	2.1200-03	8.5900-05	5.0100-02	1.8300-10	8.9800-01	5.0200-02
-1.4	3.4500-03	1.1100-04	4.0600-02	1.1900-10	9.1500-01	4.0700-02
-1.2	5.5700-03	1.4300-04	3.2800-02	7.7500-11	9.2900-01	3.2900-02
-1.0	8.9200-03	1.8300-04	2.6400-02	5.0500-11	9.3800-01	2.6600-02
-.8	1.4100-02	2.3200-04	2.1300-02	3.2900-11	9.4300-01	2.1500-02
-.6	2.2200-02	2.9200-04	1.7100-02	2.1600-11	9.4300-01	1.7400-02
-.4	3.4200-02	3.6300-04	1.3700-02	1.4200-11	9.3800-01	1.4000-02
-.2	5.1800-02	4.4500-04	1.0900-02	9.3400-12	9.2500-01	1.1400-02
.0	7.6600-02	5.3500-04	8.7100-03	6.1800-12	9.0500-01	9.2400-03
.2	1.1000-01	6.3000-04	6.9000-03	4.1000-12	8.7500-01	7.5300-03
.4	1.5300-01	7.2300-04	5.4400-03	2.7300-12	8.3500-01	6.1600-03
.6	2.0500-01	8.0600-04	4.2500-03	1.8100-12	7.8500-01	5.0500-03
.8	2.6600-01	8.7300-04	3.2800-03	1.2000-12	7.2600-01	4.1600-03
1.0	3.3300-01	9.2000-04	2.5100-03	7.9300-13	6.6100-01	3.4300-03
1.2	4.0400-01	9.4500-04	1.9000-03	5.2000-13	5.9100-01	2.8400-03
1.4	4.7600-01	9.5100-04	1.4200-03	3.3900-13	5.1900-01	2.3700-03
1.6	5.4800-01	9.4300-04	1.0500-03	2.1900-13	4.4800-01	1.9900-03
1.8	6.1700-01	9.2900-04	7.7300-04	1.4200-13	3.8000-01	1.7000-03
2.0	6.8200-01	9.2100-04	5.6600-04	9.1700-14	3.1500-01	1.4900-03
2.2	7.4300-01	9.3500-04	4.1700-04	6.0400-14	2.5500-01	1.3500-03

T= 11300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9968+00	4.6165+01	5.0161+01	1.2709+02	-4.7816+00	3.9972+00
-6.8	3.9949+00	4.6136+01	5.0131+01	1.2522+02	-4.5818+00	3.9955+00
-6.6	3.9921+00	4.6092+01	5.0084+01	1.2333+02	-4.3821+00	3.9928+00
-6.4	3.9877+00	4.6024+01	5.0011+01	1.2143+02	-4.1826+00	3.9886+00
-6.2	3.9809+00	4.5917+01	4.9898+01	1.1949+02	-3.9833+00	3.9819+00
-6.0	3.9703+00	4.5751+01	4.9721+01	1.1749+02	-3.7845+00	3.9717+00
-5.8	3.9541+00	4.5495+01	4.9449+01	1.1541+02	-3.5863+00	3.9558+00
-5.6	3.9296+00	4.5107+01	4.9037+01	1.1320+02	-3.3890+00	3.9317+00
-5.4	3.8933+00	4.4529+01	4.8423+01	1.1083+02	-3.1930+00	3.8958+00
-5.2	3.8409+00	4.3695+01	4.7536+01	1.0821+02	-2.9989+00	3.8440+00
-5.0	3.7682+00	4.2536+01	4.6304+01	1.0530+02	-2.8072+00	3.7719+00
-4.8	3.6725+00	4.1006+01	4.4678+01	1.0205+02	-2.6184+00	3.6767+00
-4.6	3.5534+00	3.9101+01	4.2655+01	9.8483+01	-2.4327+00	3.5582+00
-4.4	3.4145+00	3.6877+01	4.0291+01	9.4654+01	-2.2500+00	3.4198+00
-4.2	3.2624+00	3.4439+01	3.7701+01	9.0678+01	-2.0698+00	3.2680+00
-4.0	3.1054+00	3.1920+01	3.5025+01	8.6693+01	-1.8912+00	3.1112+00
-3.8	2.9515+00	2.9448+01	3.2400+01	8.2826+01	-1.7133+00	2.9573+00
-3.6	2.8069+00	2.7125+01	2.9932+01	7.9178+01	-1.5351+00	2.8126+00
-3.4	2.6757+00	2.5017+01	2.7693+01	7.5808+01	-1.3559+00	2.6813+00
-3.2	2.5601+00	2.3157+01	2.5717+01	7.2743+01	-1.1751+00	2.5654+00
-3.0	2.4604+00	2.1552+01	2.4012+01	6.9982+01	-9.9232-01	2.4653+00
-2.8	2.3758+00	2.0189+01	2.2565+01	6.7507+01	-8.0751-01	2.3804+00
-2.6	2.3050+00	1.9049+01	2.1354+01	6.5289+01	-6.2065-01	2.3093+00
-2.4	2.2463+00	1.8103+01	2.0349+01	6.3296+01	-4.3185-01	2.2502+00
-2.2	2.1980+00	1.7325+01	1.9522+01	6.1494+01	-2.4130-01	2.2015+00
-2.0	2.1582+00	1.6686+01	1.8844+01	5.9853+01	-4.9229-02	2.1614+00
-1.8	2.1254+00	1.6162+01	1.8287+01	5.8343+01	1.4413-01	2.1283+00
-1.6	2.0981+00	1.5729+01	1.7827+01	5.6937+01	3.3851-01	2.1007+00
-1.4	2.0748+00	1.5365+01	1.7440+01	5.5613+01	5.3365-01	2.0771+00
-1.2	2.0539+00	1.5051+01	1.7105+01	5.4348+01	7.2926-01	2.0559+00
-1.0	2.0339+00	1.4764+01	1.6798+01	5.3120+01	9.2502-01	2.0356+00
-.8	2.0130+00	1.4481+01	1.6494+01	5.1905+01	1.1205+00	2.0143+00
-.6	1.9890+00	1.4177+01	1.6166+01	5.0680+01	1.3153+00	1.9899+00
-.4	1.9595+00	1.3824+01	1.5784+01	4.9417+01	1.5088+00	1.9598+00
-.2	1.9219+00	1.3393+01	1.5315+01	4.8092+01	1.7004+00	1.9215+00
.0	1.8745+00	1.2861+01	1.4735+01	4.6685+01	1.8896+00	1.8729+00
.2	1.8162+00	1.2217+01	1.4033+01	4.5191+01	2.0759+00	1.8132+00
.4	1.7484+00	1.1470+01	1.3218+01	4.3623+01	2.2593+00	1.7432+00
.6	1.6740+00	1.0647+01	1.2321+01	4.2012+01	2.4404+00	1.6657+00
.8	1.5974+00	9.7898+00	1.1387+01	4.0401+01	2.6201+00	1.5845+00
1.0	1.5234+00	8.9394+00	1.0463+01	3.8832+01	2.7995+00	1.5038+00
1.2	1.4565+00	8.1315+00	9.5879+00	3.7339+01	2.9800+00	1.4269+00
1.4	1.4006+00	7.3905+00	8.7912+00	3.5940+01	3.1630+00	1.3562+00
1.6	1.3598+00	6.7295+00	8.0893+00	3.4644+01	3.3502+00	1.2929+00
1.8	1.3384+00	6.1524+00	7.4907+00	3.3447+01	3.5432+00	1.2374+00
2.0	1.3424+00	5.6567+00	6.9991+00	3.2335+01	3.7446+00	1.1893+00
2.2	1.3812+00	5.2370+00	6.6182+00	3.1290+01	3.9569+00	1.1480+00

T= 11400

LOG D	N2	N2+	N+	N++	N	E
-7.0	7.2900-15	4.2500-12	5.0000-01	2.7500-05	6.3300-04	5.0000-01
-6.8	2.8900-14	1.0700-11	4.9900-01	1.7400-05	1.0000-03	5.0000-01
-6.6	1.1500-13	2.6700-11	4.9900-01	1.1000-05	1.5900-03	4.9900-01
-6.4	4.5300-13	6.6700-11	4.9900-01	6.9400-06	2.5100-03	4.9900-01
-6.2	1.7900-12	1.6600-10	4.9800-01	4.3900-06	3.9500-03	4.9800-01
-6.0	6.9900-12	4.1300-10	4.9700-01	2.7800-06	6.2200-03	4.9700-01
-5.8	2.7100-11	1.0200-09	4.9500-01	1.7600-06	9.7500-03	4.9500-01
-5.6	1.0400-10	2.4900-09	4.9200-01	1.1200-06	1.5200-02	4.9200-01
-5.4	3.8900-10	5.9900-09	4.8800-01	7.1200-07	2.3500-02	4.8800-01
-5.2	1.4200-09	1.4100-08	4.8200-01	4.5600-07	3.5800-02	4.8200-01
-5.0	4.9700-09	3.2400-08	4.7300-01	2.9300-07	5.3600-02	4.7300-01
-4.8	1.6500-08	7.1500-08	4.6100-01	1.9000-07	7.8600-02	4.6100-01
-4.6	5.1600-08	1.5100-07	4.4400-01	1.2400-07	1.1200-01	4.4400-01
-4.4	1.5000-07	3.0300-07	4.2300-01	8.1500-08	1.5500-01	4.2300-01
-4.2	4.0500-07	5.7600-07	3.9700-01	5.4000-08	2.0600-01	3.9700-01
-4.0	1.0200-06	1.0400-06	3.6700-01	3.5900-08	2.6600-01	3.6700-01
-3.8	2.3800-06	1.7700-06	3.3400-01	2.4000-08	3.3200-01	3.3400-01
-3.6	5.2300-06	2.8900-06	3.0000-01	1.6000-08	4.0100-01	3.0000-01
-3.4	1.0900-05	4.5300-06	2.6500-01	1.0700-08	4.7000-01	2.6500-01
-3.2	2.1600-05	6.8500-06	2.3100-01	7.1000-09	5.3900-01	2.3100-01
-3.0	4.1300-05	1.0000-05	1.9800-01	4.7000-09	6.0300-01	1.9800-01
-2.8	7.6100-05	1.4300-05	1.6900-01	3.1100-09	6.6300-01	1.6900-01
-2.6	1.3600-04	2.0000-05	1.4200-01	2.0400-09	7.1600-01	1.4200-01
-2.4	2.3900-04	2.7400-05	1.1800-01	1.3400-09	7.6300-01	1.1800-01
-2.2	4.1100-04	3.6900-05	9.7800-02	8.7600-10	8.0400-01	9.7800-02
-2.0	6.9400-04	4.9200-05	8.0300-02	5.7100-10	8.3900-01	8.0400-02
-1.8	1.1600-03	6.4900-05	6.5700-02	3.7200-10	8.6700-01	6.5700-02
-1.6	1.9100-03	8.4800-05	5.3500-02	2.4200-10	8.9100-01	5.3600-02
-1.4	3.1200-03	1.1000-04	4.3400-02	1.5800-10	9.1000-01	4.3500-02
-1.2	5.0500-03	1.4200-04	3.5100-02	1.0300-10	9.2500-01	3.5200-02
-1.0	8.1100-03	1.8200-04	2.8300-02	6.6900-11	9.3500-01	2.8500-02
-.8	1.2900-02	2.3100-04	2.2800-02	4.3700-11	9.4100-01	2.3000-02
-.6	2.0300-02	2.9100-04	1.8300-02	2.8600-11	9.4300-01	1.8600-02
-.4	3.1400-02	3.6300-04	1.4700-02	1.8800-11	9.3900-01	1.5100-02
-.2	4.7700-02	4.4700-04	1.1800-02	1.2400-11	9.2800-01	1.2200-02
.0	7.0900-02	5.4100-04	9.3800-03	8.2200-12	9.0900-01	9.9200-03
.2	1.0200-01	6.4000-04	7.4500-03	5.4700-12	8.8100-01	8.0900-03
.4	1.4300-01	7.3800-04	5.8800-03	3.6400-12	8.4300-01	6.6100-03
.6	1.9400-01	8.2800-04	4.6000-03	2.4300-12	7.9500-01	5.4300-03
.8	2.5300-01	9.0300-04	3.5700-03	1.6200-12	7.3800-01	4.4700-03
1.0	3.1900-01	9.5800-04	2.7400-03	1.0700-12	6.7400-01	3.7000-03
1.2	3.8900-01	9.9100-04	2.0800-03	7.0500-13	6.0400-01	3.0700-03
1.4	4.6200-01	1.0000-03	1.5600-03	4.6200-13	5.3300-01	2.5600-03
1.6	5.3400-01	1.0000-03	1.1600-03	3.0100-13	4.6100-01	2.1600-03
1.8	6.0500-01	9.9100-04	8.5400-04	1.9600-13	3.9200-01	1.8500-03
2.0	6.7100-01	9.8800-04	6.2900-04	1.2800-13	3.2600-01	1.6200-03
2.2	7.3300-01	1.0100-03	4.6500-04	8.5400-14	2.6400-01	1.4700-03

T= 11400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9972+00	4.5825+01	4.9822+01	1.2715+02	-4.7777+00	3.9976+00
-6.8	3.9955+00	4.5800+01	4.9795+01	1.2529+02	-4.5779+00	3.9961+00
-6.6	3.9930+00	4.5762+01	4.9755+01	1.2341+02	-4.3782+00	3.9937+00
-6.4	3.9892+00	4.5702+01	4.9691+01	1.2151+02	-4.1786+00	3.9901+00
-6.2	3.9832+00	4.5610+01	4.9593+01	1.1958+02	-3.9793+00	3.9843+00
-6.0	3.9740+00	4.5466+01	4.9440+01	1.1761+02	-3.7803+00	3.9753+00
-5.8	3.9597+00	4.5243+01	4.9203+01	1.1556+02	-3.5818+00	3.9614+00
-5.6	3.9381+00	4.4904+01	4.8842+01	1.1340+02	-3.3842+00	3.9402+00
-5.4	3.9058+00	4.4395+01	4.8301+01	1.1108+02	-3.1878+00	3.9083+00
-5.2	3.8587+00	4.3653+01	4.7512+01	1.0855+02	-2.9931+00	3.8618+00
-5.0	3.7927+00	4.2609+01	4.6402+01	1.0575+02	-2.8006+00	3.7964+00
-4.8	3.7041+00	4.1208+01	4.4912+01	1.0262+02	-2.6108+00	3.7085+00
-4.6	3.5920+00	3.9430+01	4.3022+01	9.9159+01	-2.4242+00	3.5970+00
-4.4	3.4587+00	3.7313+01	4.0772+01	9.5417+01	-2.2406+00	3.4641+00
-4.2	3.3098+00	3.4948+01	3.8258+01	9.1493+01	-2.0597+00	3.3156+00
-4.0	3.1534+00	3.2461+01	3.5615+01	8.7518+01	-1.8807+00	3.1595+00
-3.8	2.9978+00	2.9984+01	3.2982+01	8.3625+01	-1.7027+00	3.0040+00
-3.6	2.8498+00	2.7628+01	3.0478+01	7.9922+01	-1.5247+00	2.8559+00
-3.4	2.7143+00	2.5468+01	2.8182+01	7.6481+01	-1.3458+00	2.7203+00
-3.2	2.5939+00	2.3546+01	2.6140+01	7.3338+01	-1.1655+00	2.5995+00
-3.0	2.4893+00	2.1878+01	2.4367+01	7.0500+01	-9.8342-01	2.4947+00
-2.8	2.4002+00	2.0455+01	2.2855+01	6.7952+01	-7.9925-01	2.4052+00
-2.6	2.3254+00	1.9259+01	2.1584+01	6.5668+01	-6.1300-01	2.3300+00
-2.4	2.2631+00	1.8265+01	2.0528+01	6.3618+01	-4.2478-01	2.2674+00
-2.2	2.2118+00	1.7444+01	1.9656+01	6.1768+01	-2.3475-01	2.2157+00
-2.0	2.1696+00	1.6771+01	1.8940+01	6.0085+01	-4.3126-02	2.1731+00
-1.8	2.1348+00	1.6218+01	1.8353+01	5.8542+01	1.4985-01	2.1379+00
-1.6	2.1059+00	1.5762+01	1.7868+01	5.7110+01	3.4393-01	2.1087+00
-1.4	2.0813+00	1.5382+01	1.7463+01	5.5765+01	5.3885-01	2.0839+00
-1.2	2.0597+00	1.5055+01	1.7115+01	5.4485+01	7.3431-01	2.0619+00
-1.0	2.0393+00	1.4761+01	1.6800+01	5.3247+01	9.2999-01	2.0412+00
-.8	2.0185+00	1.4477+01	1.6496+01	5.2029+01	1.1255+00	2.0200+00
-.6	1.9951+00	1.4179+01	1.6174+01	5.0806+01	1.3205+00	1.9961+00
-.4	1.9667+00	1.3838+01	1.5804+01	4.9553+01	1.5142+00	1.9672+00
-.2	1.9309+00	1.3425+01	1.5356+01	4.8242+01	1.7063+00	1.9306+00
.0	1.8854+00	1.2917+01	1.4802+01	4.6855+01	1.8959+00	1.8840+00
.2	1.8294+00	1.2298+01	1.4128+01	4.5381+01	2.0828+00	1.8264+00
.4	1.7633+00	1.1575+01	1.3338+01	4.3829+01	2.2668+00	1.7582+00
.6	1.6901+00	1.0769+01	1.2460+01	4.2229+01	2.4484+00	1.6817+00
.8	1.6138+00	9.9211+00	1.1535+01	4.0619+01	2.6284+00	1.6008+00
1.0	1.5394+00	9.0718+00	1.0611+01	3.9044+01	2.8079+00	1.5196+00
1.2	1.4714+00	8.2583+00	9.7298+00	3.7538+01	2.9882+00	1.4416+00
1.4	1.4142+00	7.5073+00	8.9215+00	3.6123+01	3.1710+00	1.3694+00
1.6	1.3718+00	6.8338+00	8.2055+00	3.4808+01	3.3578+00	1.3044+00
1.8	1.3487+00	6.2431+00	7.5918+00	3.3592+01	3.5504+00	1.2471+00
2.0	1.3512+00	5.7340+00	7.0852+00	3.2462+01	3.7512+00	1.1973+00
2.2	1.3887+00	5.3017+00	6.6903+00	3.1400+01	3.9631+00	1.1545+00

T= 11500

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.0500-15	3.4400-12	5.0000-01	3.6200-05	5.5200-04	5.0000-01
-6.8	2.0000-14	8.6300-12	5.0000-01	2.2900-05	8.7300-04	5.0000-01
-6.6	7.9500-14	2.1600-11	4.9900-01	1.4400-05	1.3800-03	4.9900-01
-6.4	3.1500-13	5.4100-11	4.9900-01	9.1200-06	2.1800-03	4.9900-01
-6.2	1.2400-12	1.3500-10	4.9800-01	5.7700-06	3.4500-03	4.9800-01
-6.0	4.8700-12	3.3500-10	4.9700-01	3.6500-06	5.4300-03	4.9700-01
-5.8	1.8900-11	8.2900-10	4.9600-01	2.3100-06	8.5200-03	4.9600-01
-5.6	7.2800-11	2.0300-09	4.9300-01	1.4700-06	1.3300-02	4.9300-01
-5.4	2.7500-10	4.9200-09	4.9000-01	9.3400-07	2.0600-02	4.9000-01
-5.2	1.0100-09	1.1700-08	4.8400-01	5.9700-07	3.1600-02	4.8400-01
-5.0	3.5900-09	2.7000-08	4.7600-01	3.8300-07	4.7600-02	4.7600-01
-4.8	1.2100-08	6.0400-08	4.6500-01	2.4800-07	7.0200-02	4.6500-01
-4.6	3.8600-08	1.2900-07	4.4900-01	1.6100-07	1.0100-01	4.4900-01
-4.4	1.1500-07	2.6400-07	4.3000-01	1.0600-07	1.4100-01	4.3000-01
-4.2	3.1700-07	5.0900-07	4.0500-01	7.0000-08	1.9000-01	4.0500-01
-4.0	8.1400-07	9.3200-07	3.7600-01	4.6500-08	2.4700-01	3.7600-01
-3.8	1.9400-06	1.6200-06	3.4400-01	3.1000-08	3.1100-01	3.4400-01
-3.6	4.3500-06	2.6800-06	3.1000-01	2.0700-08	3.7900-01	3.1000-01
-3.4	9.2000-06	4.2400-06	2.7500-01	1.3800-08	4.4900-01	2.7500-01
-3.2	1.8500-05	6.4800-06	2.4100-01	9.2200-09	5.1800-01	2.4100-01
-3.0	3.5700-05	9.5800-06	2.0800-01	6.1200-09	5.8400-01	2.0800-01
-2.8	6.6600-05	1.3800-05	1.7700-01	4.0500-09	6.4500-01	1.7700-01
-2.6	1.2000-04	1.9300-05	1.5000-01	2.6700-09	7.0100-01	1.5000-01
-2.4	2.1200-04	2.6600-05	1.2500-01	1.7500-09	7.5000-01	1.2500-01
-2.2	3.6700-04	3.6100-05	1.0400-01	1.1500-09	7.9200-01	1.0400-01
-2.0	6.2300-04	4.8300-05	8.5400-02	7.4900-10	8.2800-01	8.5500-02
-1.8	1.0400-03	6.3900-05	6.9900-02	4.8800-10	8.5900-01	7.0000-02
-1.6	1.7300-03	8.3700-05	5.7000-02	3.1800-10	8.8400-01	5.7100-02
-1.4	2.8300-03	1.0900-04	4.6300-02	2.0700-10	9.0400-01	4.6400-02
-1.2	4.5900-03	1.4100-04	3.7500-02	1.3500-10	9.2000-01	3.7600-02
-1.0	7.3800-03	1.8000-04	3.0300-02	8.8200-11	9.3200-01	3.0500-02
-.8	1.1800-02	2.3000-04	2.4400-02	5.7700-11	9.3900-01	2.4600-02
-.6	1.8500-02	2.9100-04	1.9600-02	3.7800-11	9.4200-01	1.9900-02
-.4	2.8800-02	3.6400-04	1.5800-02	2.4900-11	9.3900-01	1.6100-02
-.2	4.4000-02	4.4900-04	1.2600-02	1.6400-11	9.3000-01	1.3100-02
.0	6.5700-02	5.4600-04	1.0100-02	1.0900-11	9.1300-01	1.0600-02
.2	9.5500-02	6.4900-04	8.0200-03	7.2600-12	8.8700-01	8.6700-03
.4	1.3500-01	7.5400-04	6.3400-03	4.8400-12	8.5100-01	7.0900-03
.6	1.8300-01	8.5100-04	4.9800-03	3.2400-12	8.0500-01	5.8300-03
.8	2.4100-01	9.3400-04	3.8700-03	2.1600-12	7.5000-01	4.8000-03
1.0	3.0600-01	9.9700-04	2.9800-03	1.4400-12	6.8700-01	3.9700-03
1.2	3.7600-01	1.0400-03	2.2700-03	9.5200-13	6.1800-01	3.3000-03
1.4	4.4800-01	1.0600-03	1.7100-03	6.2700-13	5.4600-01	2.7600-03
1.6	5.2100-01	1.0600-03	1.2700-03	4.1200-13	4.7400-01	2.3300-03
1.8	5.9200-01	1.0600-03	9.4300-04	2.7000-13	4.0400-01	2.0000-03
2.0	6.6000-01	1.0600-03	6.9600-04	1.7800-13	3.3700-01	1.7600-03
2.2	7.2300-01	1.0900-03	5.1700-04	1.2000-13	2.7400-01	1.6000-03



T= 11500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9975+00	4.5491+01	4.9488+01	1.2722+02	-4.7739+00	3.9980+00
-6.8	3.9961+00	4.5468+01	4.9464+01	1.2535+02	-4.5741+00	3.9966+00
-6.6	3.9939+00	4.5435+01	4.9429+01	1.2348+02	-4.3743+00	3.9946+00
-6.4	3.9905+00	4.5383+01	4.9374+01	1.2159+02	-4.1747+00	3.9913+00
-6.2	3.9852+00	4.5303+01	4.9288+01	1.1967+02	-3.9752+00	3.9863+00
-6.0	3.9771+00	4.5178+01	4.9155+01	1.1771+02	-3.7761+00	3.9784+00
-5.8	3.9646+00	4.4984+01	4.8948+01	1.1569+02	-3.5775+00	3.9662+00
-5.6	3.9455+00	4.4687+01	4.8633+01	1.1357+02	-3.3796+00	3.9475+00
-5.4	3.9167+00	4.4239+01	4.8156+01	1.1131+02	-3.1828+00	3.9193+00
-5.2	3.8745+00	4.3581+01	4.7455+01	1.0886+02	-2.9875+00	3.8777+00
-5.0	3.8146+00	4.2642+01	4.6457+01	1.0615+02	-2.7943+00	3.8183+00
-4.8	3.7331+00	4.1363+01	4.5097+01	1.0313+02	-2.6036+00	3.7375+00
-4.6	3.6280+00	3.9713+01	4.3341+01	9.9787+01	-2.4160+00	3.6331+00
-4.4	3.5006+00	3.7708+01	4.1209+01	9.6140+01	-2.2316+00	3.5062+00
-4.2	3.3557+00	3.5425+01	3.8781+01	9.2278+01	-2.0499+00	3.3617+00
-4.0	3.2007+00	3.2982+01	3.6183+01	8.8325+01	-1.8705+00	3.2071+00
-3.8	3.0441+00	3.0511+01	3.3555+01	8.4416+01	-1.6922+00	3.0506+00
-3.6	2.8932+00	2.8129+01	3.1022+01	8.0667+01	-1.5143+00	2.8997+00
-3.4	2.7536+00	2.5923+01	2.8676+01	7.7161+01	-1.3358+00	2.7600+00
-3.2	2.6285+00	2.3944+01	2.6572+01	7.3943+01	-1.1560+00	2.6346+00
-3.0	2.5192+00	2.2214+01	2.4733+01	7.1028+01	-9.7444-01	2.5250+00
-2.8	2.4255+00	2.0731+01	2.3156+01	6.8407+01	-7.9089-01	2.4309+00
-2.6	2.3466+00	1.9479+01	2.1826+01	6.6058+01	-6.0527-01	2.3516+00
-2.4	2.2807+00	1.8436+01	2.0716+01	6.3949+01	-4.1763-01	2.2853+00
-2.2	2.2262+00	1.7573+01	1.9799+01	6.2049+01	-2.2813-01	2.2305+00
-2.0	2.1814+00	1.6863+01	1.9044+01	6.0324+01	-3.6964-02	2.1853+00
-1.8	2.1445+00	1.6281+01	1.8425+01	5.8746+01	1.5563-01	2.1480+00
-1.6	2.1139+00	1.5801+01	1.7915+01	5.7286+01	3.4939-01	2.1171+00
-1.4	2.0881+00	1.5402+01	1.7490+01	5.5920+01	5.4405-01	2.0909+00
-1.2	2.0656+00	1.5062+01	1.7128+01	5.4624+01	7.3935-01	2.0681+00
-1.0	2.0448+00	1.4760+01	1.6805+01	5.3375+01	9.3495-01	2.0469+00
-.8	2.0240+00	1.4474+01	1.6498+01	5.2152+01	1.1305+00	2.0256+00
-.6	2.0010+00	1.4179+01	1.6180+01	5.0931+01	1.3256+00	2.0022+00
-.4	1.9737+00	1.3849+01	1.5822+01	4.9685+01	1.5196+00	1.9743+00
-.2	1.9394+00	1.3453+01	1.5393+01	4.8388+01	1.7120+00	1.9392+00
.0	1.8960+00	1.2967+01	1.4863+01	4.7018+01	1.9021+00	1.8947+00
.2	1.8420+00	1.2374+01	1.4216+01	4.5564+01	2.0896+00	1.8391+00
.4	1.7778+00	1.1674+01	1.3452+01	4.4030+01	2.2742+00	1.7727+00
.6	1.7059+00	1.0887+01	1.2593+01	4.2441+01	2.4562+00	1.6975+00
.8	1.6301+00	1.0049+01	1.1680+01	4.0835+01	2.6365+00	1.6171+00
1.0	1.5554+00	9.2026+00	1.0758+01	3.9255+01	2.8161+00	1.5354+00
1.2	1.4865+00	8.3849+00	9.8714+00	3.7737+01	2.9965+00	1.4564+00
1.4	1.4279+00	7.6247+00	9.0526+00	3.6306+01	3.1790+00	1.3827+00
1.6	1.3840+00	6.9391+00	8.3230+00	3.4974+01	3.3654+00	1.3161+00
1.8	1.3593+00	6.3351+00	7.6944+00	3.3739+01	3.5576+00	1.2570+00
2.0	1.3603+00	5.8126+00	7.1730+00	3.2592+01	3.7579+00	1.2056+00
2.2	1.3963+00	5.3677+00	6.7640+00	3.1513+01	3.9693+00	1.1611+00

T= 11600

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.5200-15	2.7900-12	5.0000-01	4.7400-05	4.8200-04	5.0000-01
-6.8	1.4000-14	7.0100-12	5.0000-01	2.9900-05	7.6200-04	5.0000-01
-6.6	5.5500-14	1.7600-11	4.9900-01	1.8900-05	1.2100-03	4.9900-01
-6.4	2.2000-13	4.3900-11	4.9900-01	1.1900-05	1.9100-03	4.9900-01
-6.2	8.6800-13	1.1000-10	4.9800-01	7.5500-06	3.0100-03	4.9800-01
-6.0	3.4100-12	2.7300-10	4.9800-01	4.7700-06	4.7500-03	4.9800-01
-5.8	1.3300-11	6.7600-10	4.9600-01	3.0200-06	7.4600-03	4.9600-01
-5.6	5.1400-11	1.6600-09	4.9400-01	1.9200-06	1.1700-02	4.9400-01
-5.4	1.9500-10	4.0400-09	4.9100-01	1.2200-06	1.8100-02	4.9100-01
-5.2	7.2400-10	9.6500-09	4.8600-01	7.7800-07	2.7900-02	4.8600-01
-5.0	2.6000-09	2.2500-08	4.7900-01	4.9900-07	4.2200-02	4.7900-01
-4.8	8.9200-09	5.0900-08	4.6900-01	3.2200-07	6.2700-02	4.6900-01
-4.6	2.9000-08	1.1100-07	4.5500-01	2.0900-07	9.1000-02	4.5500-01
-4.4	8.8000-08	2.2900-07	4.3600-01	1.3700-07	1.2800-01	4.3600-01
-4.2	2.4800-07	4.4900-07	4.1300-01	9.0500-08	1.7400-01	4.1300-01
-4.0	6.5100-07	8.3500-07	3.8500-01	6.0100-08	2.2900-01	3.8500-01
-3.8	1.5900-06	1.4700-06	3.5400-01	4.0000-08	2.9200-01	3.5400-01
-3.6	3.6200-06	2.4700-06	3.2100-01	2.6700-08	3.5900-01	3.2100-01
-3.4	7.7800-06	3.9600-06	2.8600-01	1.7900-08	4.2800-01	2.8600-01
-3.2	1.5900-05	6.1200-06	2.5100-01	1.1900-08	4.9800-01	2.5100-01
-3.0	3.1000-05	9.1200-06	2.1800-01	7.9200-09	5.6500-01	2.1800-01
-2.8	5.8300-05	1.3200-05	1.8600-01	5.2500-09	6.2700-01	1.8600-01
-2.6	1.0600-04	1.8700-05	1.5800-01	3.4600-09	6.8500-01	1.5800-01
-2.4	1.8900-04	2.5900-05	1.3200-01	2.2800-09	7.3500-01	1.3200-01
-2.2	3.2800-04	3.5200-05	1.1000-01	1.4900-09	7.8000-01	1.1000-01
-2.0	5.5900-04	4.7300-05	9.0600-02	9.7700-10	8.1800-01	9.0700-02
-1.8	9.4000-04	6.2800-05	7.4400-02	6.3800-10	8.5000-01	7.4400-02
-1.6	1.5600-03	8.2500-05	6.0700-02	4.1600-10	8.7700-01	6.0800-02
-1.4	2.5600-03	1.0800-04	4.9400-02	2.7100-10	8.9800-01	4.9500-02
-1.2	4.1700-03	1.3900-04	4.0000-02	1.7700-10	9.1600-01	4.0200-02
-1.0	6.7200-03	1.7900-04	3.2400-02	1.1600-10	9.2800-01	3.2500-02
-.8	1.0700-02	2.2900-04	2.6100-02	7.5700-11	9.3700-01	2.6300-02
-.6	1.7000-02	2.9000-04	2.1000-02	4.9700-11	9.4000-01	2.1300-02
-.4	2.6500-02	3.6400-04	1.6900-02	3.2700-11	9.3900-01	1.7300-02
-.2	4.0600-02	4.5100-04	1.3500-02	2.1600-11	9.3100-01	1.4000-02
.0	6.0900-02	5.5000-04	1.0800-02	1.4400-11	9.1600-01	1.1400-02
.2	8.9100-02	6.5700-04	8.6200-03	9.5900-12	8.9200-01	9.2800-03
.4	1.2600-01	7.6700-04	6.8300-03	6.4100-12	8.5900-01	7.6000-03
.6	1.7300-01	8.7200-04	5.3700-03	4.2900-12	8.1400-01	6.2400-03
.8	2.2900-01	9.6300-04	4.1900-03	2.8800-12	7.6100-01	5.1500-03
1.0	2.9300-01	1.0400-03	3.2300-03	1.9200-12	6.9900-01	4.2700-03
1.2	3.6200-01	1.0800-03	2.4700-03	1.2800-12	6.3100-01	3.5500-03
1.4	4.3500-01	1.1100-03	1.8700-03	8.4800-13	5.5900-01	2.9800-03
1.6	5.0800-01	1.1200-03	1.4000-03	5.6000-13	4.8700-01	2.5200-03
1.8	5.8000-01	1.1200-03	1.0400-03	3.7000-13	4.1600-01	2.1600-03
2.0	6.4800-01	1.1300-03	7.7000-04	2.4700-13	3.4800-01	1.9000-03
2.2	7.1300-01	1.1700-03	5.7400-04	1.6800-13	2.8300-01	1.7400-03

T= 11600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9979+00	4.5162+01	4.9159+01	1.2728+02	-4.7701+00	3.9983+00
-6.8	3.9966+00	4.5142+01	4.9138+01	1.2542+02	-4.5703+00	3.9971+00
-6.6	3.9946+00	4.5112+01	4.9107+01	1.2355+02	-4.3705+00	3.9953+00
-6.4	3.9916+00	4.5067+01	4.9058+01	1.2166+02	-4.1708+00	3.9925+00
-6.2	3.9870+00	4.4997+01	4.8984+01	1.1976+02	-3.9713+00	3.9880+00
-6.0	3.9798+00	4.4888+01	4.8868+01	1.1781+02	-3.7721+00	3.9811+00
-5.8	3.9688+00	4.4719+01	4.8688+01	1.1581+02	-3.5733+00	3.9704+00
-5.6	3.9519+00	4.4459+01	4.8411+01	1.1373+02	-3.3751+00	3.9539+00
-5.4	3.9263+00	4.4065+01	4.7991+01	1.1152+02	-3.1780+00	3.9288+00
-5.2	3.8885+00	4.3480+01	4.7369+01	1.0914+02	-2.9822+00	3.8916+00
-5.0	3.8343+00	4.2639+01	4.6473+01	1.0652+02	-2.7883+00	3.8380+00
-4.8	3.7595+00	4.1476+01	4.5235+01	1.0360+02	-2.5968+00	3.7639+00
-4.6	3.6614+00	3.9949+01	4.3610+01	1.0037+02	-2.4083+00	3.6665+00
-4.4	3.5402+00	3.8060+01	4.1600+01	9.6820+01	-2.2229+00	3.5460+00
-4.2	3.3998+00	3.5867+01	3.9267+01	9.3029+01	-2.0405+00	3.4061+00
-4.0	3.2470+00	3.3479+01	3.6726+01	8.9109+01	-1.8605+00	3.2536+00
-3.8	3.0901+00	3.1024+01	3.4114+01	8.5195+01	-1.6820+00	3.0969+00
-3.6	2.9369+00	2.8626+01	3.1562+01	8.1409+01	-1.5041+00	2.9437+00
-3.4	2.7935+00	2.6380+01	2.9173+01	7.7844+01	-1.3258+00	2.8003+00
-3.2	2.6639+00	2.4347+01	2.7011+01	7.4555+01	-1.1464+00	2.6705+00
-3.0	2.5499+00	2.2558+01	2.5108+01	7.1566+01	-9.6542-01	2.5561+00
-2.8	2.4517+00	2.1016+01	2.3467+01	6.8873+01	-7.8247-01	2.4576+00
-2.6	2.3685+00	1.9709+01	2.2077+01	6.6457+01	-5.9746-01	2.3740+00
-2.4	2.2990+00	1.8615+01	2.0914+01	6.4289+01	-4.1041-01	2.3040+00
-2.2	2.2413+00	1.7709+01	1.9950+01	6.2337+01	-2.2144-01	2.2459+00
-2.0	2.1938+00	1.6962+01	1.9156+01	6.0570+01	-3.0747-02	2.1980+00
-1.8	2.1547+00	1.6349+01	1.8504+01	5.8956+01	1.6144-01	2.1585+00
-1.6	2.1223+00	1.5845+01	1.7967+01	5.7467+01	3.5487-01	2.1257+00
-1.4	2.0952+00	1.5426+01	1.7522+01	5.6078+01	5.4927-01	2.0982+00
-1.2	2.0717+00	1.5072+01	1.7144+01	5.4764+01	7.4438-01	2.0744+00
-1.0	2.0503+00	1.4761+01	1.6812+01	5.3504+01	9.3988-01	2.0526+00
-.8	2.0293+00	1.4471+01	1.6501+01	5.2275+01	1.1354+00	2.0312+00
-.6	2.0067+00	1.4179+01	1.6185+01	5.1053+01	1.3306+00	2.0082+00
-.4	1.9803+00	1.3856+01	1.5837+01	4.9812+01	1.5248+00	1.9811+00
-.2	1.9474+00	1.3476+01	1.5423+01	4.8527+01	1.7175+00	1.9474+00
.0	1.9058+00	1.3011+01	1.4916+01	4.7174+01	1.9081+00	1.9046+00
.2	1.8539+00	1.2441+01	1.4295+01	4.5739+01	2.0961+00	1.8511+00
.4	1.7916+00	1.1765+01	1.3556+01	4.4222+01	2.2813+00	1.7866+00
.6	1.7210+00	1.0997+01	1.2718+01	4.2645+01	2.4638+00	1.7127+00
.8	1.6459+00	1.0171+01	1.1817+01	4.1044+01	2.6445+00	1.6328+00
1.0	1.5710+00	9.3283+00	1.0899+01	3.9461+01	2.8242+00	1.5510+00
1.2	1.5014+00	8.5076+00	1.0009+01	3.7933+01	3.0045+00	1.4710+00
1.4	1.4416+00	7.7394+00	9.1810+00	3.6487+01	3.1869+00	1.3960+00
1.6	1.3961+00	7.0426+00	8.4388+00	3.5138+01	3.3730+00	1.3277+00
1.8	1.3700+00	6.4260+00	7.7960+00	3.3885+01	3.5648+00	1.2670+00
2.0	1.3695+00	5.8907+00	7.2602+00	3.2720+01	3.7646+00	1.2138+00
2.2	1.4041+00	5.4334+00	6.8375+00	3.1626+01	3.9754+00	1.1678+00

T= 11700

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.4700-15	2.2800-12	5.0000-01	6.1700-05	4.2100-04	5.0000-01
-6.8	9.8200-15	5.7100-12	5.0000-01	3.9000-05	6.6700-04	5.0000-01
-6.6	3.9000-14	1.4300-11	4.9900-01	2.4600-05	1.0600-03	4.9900-01
-6.4	1.5400-13	3.5800-11	4.9900-01	1.5600-05	1.6700-03	4.9900-01
-6.2	6.1000-13	8.9600-11	4.9900-01	9.8300-06	2.6400-03	4.9900-01
-6.0	2.4000-12	2.2300-10	4.9800-01	6.2200-06	4.1600-03	4.9800-01
-5.8	9.3900-12	5.5400-10	4.9700-01	3.9400-06	6.5400-03	4.9700-01
-5.6	3.6400-11	1.3600-09	4.9500-01	2.5000-06	1.0200-02	4.9500-01
-5.4	1.3900-10	3.3300-09	4.9200-01	1.5900-06	1.6000-02	4.9200-01
-5.2	5.1900-10	7.9900-09	4.8800-01	1.0100-06	2.4600-02	4.8800-01
-5.0	1.8800-09	1.8800-08	4.8100-01	6.4700-07	3.7500-02	4.8100-01
-4.8	6.5600-09	4.2900-08	4.7200-01	4.1700-07	5.6000-02	4.7200-01
-4.6	2.1700-08	9.4400-08	4.5900-01	2.7000-07	8.1900-02	4.5900-01
-4.4	6.7200-08	1.9800-07	4.4200-01	1.7700-07	1.1600-01	4.4200-01
-4.2	1.9400-07	3.9500-07	4.2000-01	1.1600-07	1.6000-01	4.2000-01
-4.0	5.1900-07	7.4600-07	3.9400-01	7.7200-08	2.1200-01	3.9400-01
-3.8	1.2900-06	1.3400-06	3.6400-01	5.1400-08	2.7300-01	3.6400-01
-3.6	3.0000-06	2.2700-06	3.3100-01	3.4300-08	3.3900-01	3.3100-01
-3.4	6.5500-06	3.6900-06	2.9600-01	2.3000-08	4.0800-01	2.9600-01
-3.2	1.3600-05	5.7600-06	2.6100-01	1.5300-08	4.7800-01	2.6100-01
-3.0	2.6800-05	8.6800-06	2.2700-01	1.0200-08	5.4500-01	2.2700-01
-2.8	5.1000-05	1.2700-05	1.9500-01	6.7700-09	6.0900-01	1.9500-01
-2.6	9.3700-05	1.8000-05	1.6600-01	4.4800-09	6.6800-01	1.6600-01
-2.4	1.6700-04	2.5100-05	1.3900-01	2.9500-09	7.2100-01	1.3900-01
-2.2	2.9300-04	3.4400-05	1.1600-01	1.9400-09	7.6700-01	1.1600-01
-2.0	5.0200-04	4.6400-05	9.6000-02	1.2700-09	8.0700-01	9.6100-02
-1.8	8.4700-04	6.1800-05	7.8900-02	8.3000-10	8.4100-01	7.9000-02
-1.6	1.4100-03	8.1400-05	6.4600-02	5.4200-10	8.6900-01	6.4600-02
-1.4	2.3300-03	1.0600-04	5.2600-02	3.5400-10	8.9200-01	5.2700-02
-1.2	3.7900-03	1.3800-04	4.2700-02	2.3100-10	9.1100-01	4.2800-02
-1.0	6.1300-03	1.7800-04	3.4500-02	1.5100-10	9.2400-01	3.4700-02
-.8	9.8100-03	2.2700-04	2.7900-02	9.9000-11	9.3400-01	2.8100-02
-.6	1.5500-02	2.8900-04	2.2500-02	6.5100-11	9.3900-01	2.2800-02
-.4	2.4300-02	3.6300-04	1.8100-02	4.2900-11	9.3900-01	1.8400-02
-.2	3.7400-02	4.5200-04	1.4500-02	2.8400-11	9.3300-01	1.5000-02
.0	5.6400-02	5.5400-04	1.1600-02	1.8900-11	9.1900-01	1.2200-02
.2	8.3000-02	6.6500-04	9.2600-03	1.2600-11	8.9700-01	9.9300-03
.4	1.1800-01	7.8100-04	7.3500-03	8.4500-12	8.6500-01	8.1300-03
.6	1.6300-01	8.9300-04	5.7900-03	5.6700-12	8.2300-01	6.6900-03
.8	2.1800-01	9.9300-04	4.5300-03	3.8100-12	7.7100-01	5.5200-03
1.0	2.8000-01	1.0700-03	3.5100-03	2.5600-12	7.1100-01	4.5800-03
1.2	3.4900-01	1.1300-03	2.6900-03	1.7100-12	6.4400-01	3.8200-03
1.4	4.2100-01	1.1700-03	2.0400-03	1.1400-12	5.7300-01	3.2000-03
1.6	4.9500-01	1.1800-03	1.5300-03	7.5800-13	5.0000-01	2.7100-03
1.8	5.6700-01	1.1900-03	1.1400-03	5.0500-13	4.2800-01	2.3400-03
2.0	6.3700-01	1.2100-03	8.5000-04	3.4000-13	3.5900-01	2.0600-03
2.2	7.0300-01	1.2600-03	6.3600-04	2.3500-13	2.9300-01	1.8900-03

T= 11700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9982+00	4.4838+01	4.8836+01	1.2734+02	-4.7664+00	3.9986+00
-6.8	3.9970+00	4.4820+01	4.8817+01	1.2548+02	-4.5665+00	3.9975+00
-6.6	3.9952+00	4.4793+01	4.8789+01	1.2362+02	-4.3667+00	3.9959+00
-6.4	3.9926+00	4.4754+01	4.8746+01	1.2174+02	-4.1670+00	3.9934+00
-6.2	3.9885+00	4.4693+01	4.8681+01	1.1984+02	-3.9674+00	3.9895+00
-6.0	3.9822+00	4.4597+01	4.8580+01	1.1791+02	-3.7681+00	3.9835+00
-5.8	3.9724+00	4.4450+01	4.8422+01	1.1593+02	-3.5692+00	3.9740+00
-5.6	3.9574+00	4.4222+01	4.8179+01	1.1387+02	-3.3708+00	3.9595+00
-5.4	3.9347+00	4.3875+01	4.7810+01	1.1171+02	-3.1733+00	3.9372+00
-5.2	3.9009+00	4.3357+01	4.7258+01	1.0939+02	-2.9771+00	3.9040+00
-5.0	3.8518+00	4.2603+01	4.6455+01	1.0685+02	-2.7825+00	3.8556+00
-4.8	3.7834+00	4.1549+01	4.5332+01	1.0403+02	-2.5903+00	3.7878+00
-4.6	3.6922+00	4.0142+01	4.3834+01	1.0090+02	-2.4009+00	3.6974+00
-4.4	3.5775+00	3.8370+01	4.1947+01	9.7458+01	-2.2146+00	3.5834+00
-4.2	3.4422+00	3.6274+01	3.9717+01	9.3745+01	-2.0314+00	3.4486+00
-4.0	3.2921+00	3.3950+01	3.7242+01	8.9870+01	-1.8507+00	3.2991+00
-3.8	3.1356+00	3.1522+01	3.4658+01	8.5961+01	-1.6719+00	3.1428+00
-3.6	2.9806+00	2.9116+01	3.2097+01	8.2147+01	-1.4939+00	2.9879+00
-3.4	2.8340+00	2.6837+01	2.9671+01	7.8530+01	-1.3158+00	2.8412+00
-3.2	2.7001+00	2.4756+01	2.7456+01	7.5175+01	-1.1368+00	2.7071+00
-3.0	2.5815+00	2.2910+01	2.5491+01	7.2113+01	-9.5634-01	2.5882+00
-2.8	2.4787+00	2.1310+01	2.3788+01	6.9349+01	-7.7398-01	2.4850+00
-2.6	2.3913+00	1.9947+01	2.2339+01	6.6865+01	-5.8957-01	2.3972+00
-2.4	2.3180+00	1.8803+01	2.1121+01	6.4638+01	-4.0311-01	2.3234+00
-2.2	2.2570+00	1.7853+01	2.0110+01	6.2634+01	-2.1468-01	2.2620+00
-2.0	2.2067+00	1.7068+01	1.9275+01	6.0822+01	-2.4469-02	2.2113+00
-1.8	2.1653+00	1.6424+01	1.8589+01	5.9171+01	1.6730-01	2.1694+00
-1.6	2.1311+00	1.5894+01	1.8025+01	5.7652+01	3.6038-01	2.1348+00
-1.4	2.1025+00	1.5455+01	1.7557+01	5.6239+01	5.5451-01	2.1058+00
-1.2	2.0779+00	1.5086+01	1.7164+01	5.4907+01	7.4942-01	2.0809+00
-1.0	2.0559+00	1.4765+01	1.6820+01	5.3634+01	9.4479-01	2.0585+00
-.8	2.0347+00	1.4470+01	1.6504+01	5.2398+01	1.1403+00	2.0368+00
-.6	2.0124+00	1.4178+01	1.6190+01	5.1174+01	1.3355+00	2.0140+00
-.4	1.9866+00	1.3863+01	1.5849+01	4.9937+01	1.5299+00	1.9876+00
-.2	1.9551+00	1.3496+01	1.5451+01	4.8663+01	1.7229+00	1.9552+00
.0	1.9152+00	1.3050+01	1.4965+01	4.7325+01	1.9140+00	1.9142+00
.2	1.8653+00	1.2503+01	1.4369+01	4.5908+01	2.1025+00	1.8626+00
.4	1.8050+00	1.1850+01	1.3655+01	4.4409+01	2.2883+00	1.8000+00
.6	1.7359+00	1.1102+01	1.2838+01	4.2846+01	2.4713+00	1.7276+00
.8	1.6615+00	1.0289+01	1.1951+01	4.1251+01	2.6523+00	1.6484+00
1.0	1.5867+00	9.4521+00	1.1039+01	3.9665+01	2.8323+00	1.5665+00
1.2	1.5163+00	8.6297+00	1.0146+01	3.8129+01	3.0126+00	1.4857+00
1.4	1.4554+00	7.8543+00	9.3097+00	3.6670+01	3.1948+00	1.4094+00
1.6	1.4085+00	7.1470+00	8.5555+00	3.5303+01	3.3805+00	1.3395+00
1.8	1.3808+00	6.5181+00	7.8990+00	3.4033+01	3.5719+00	1.2771+00
2.0	1.3789+00	5.9701+00	7.3489+00	3.2851+01	3.7713+00	1.2223+00
2.2	1.4120+00	5.5004+00	6.9125+00	3.1740+01	3.9816+00	1.1747+00

T= 11800

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.7400-15	1.8600-12	5.0000-01	8.0100-05	3.6900-04	5.0000-01
-6.8	6.9300-15	4.6700-12	5.0000-01	5.0600-05	5.8500-04	5.0000-01
-6.6	2.7500-14	1.1700-11	4.9900-01	3.1900-05	9.2600-04	5.0000-01
-6.4	1.0900-13	2.9300-11	4.9900-01	2.0200-05	1.4600-03	4.9900-01
-6.2	4.3100-13	7.3400-11	4.9900-01	1.2700-05	2.3100-03	4.9900-01
-6.0	1.7000-12	1.8300-10	4.9800-01	8.0600-06	3.6500-03	4.9800-01
-5.8	6.6600-12	4.5500-10	4.9700-01	5.1000-06	5.7500-03	4.9700-01
-5.6	2.5900-11	1.1200-09	4.9500-01	3.2300-06	9.0200-03	4.9500-01
-5.4	9.9300-11	2.7500-09	4.9300-01	2.0500-06	1.4100-02	4.9300-01
-5.2	3.7400-10	6.6300-09	4.8900-01	1.3100-06	2.1800-02	4.8900-01
-5.0	1.3700-09	1.5700-08	4.8300-01	8.3600-07	3.3300-02	4.8300-01
-4.8	4.8300-09	3.6200-08	4.7500-01	5.3800-07	5.0000-02	4.7500-01
-4.6	1.6200-08	8.0500-08	4.6300-01	3.4800-07	7.3600-02	4.6300-01
-4.4	5.1200-08	1.7100-07	4.4700-01	2.2700-07	1.0500-01	4.4700-01
-4.2	1.5100-07	3.4700-07	4.2700-01	1.4900-07	1.4600-01	4.2700-01
-4.0	4.1300-07	6.6600-07	4.0200-01	9.8800-08	1.9600-01	4.0200-01
-3.8	1.0500-06	1.2100-06	3.7300-01	6.5800-08	2.5500-01	3.7300-01
-3.6	2.4800-06	2.0900-06	3.4000-01	4.3900-08	3.1900-01	3.4000-01
-3.4	5.5100-06	3.4400-06	3.0600-01	2.9400-08	3.8800-01	3.0600-01
-3.2	1.1600-05	5.4200-06	2.7100-01	1.9600-08	4.5700-01	2.7100-01
-3.0	2.3200-05	8.2400-06	2.3700-01	1.3100-08	5.2600-01	2.3700-01
-2.8	4.4500-05	1.2100-05	2.0400-01	8.6900-09	5.9100-01	2.0400-01
-2.6	8.2600-05	1.7400-05	1.7400-01	5.7600-09	6.5200-01	1.7400-01
-2.4	1.4900-04	2.4400-05	1.4700-01	3.8000-09	7.0600-01	1.4700-01
-2.2	2.6200-04	3.3600-05	1.2300-01	2.5000-09	7.5400-01	1.2300-01
-2.0	4.5100-04	4.5400-05	1.0200-01	1.6400-09	7.9600-01	1.0200-01
-1.8	7.6500-04	6.0700-05	8.3700-02	1.0700-09	8.3200-01	8.3700-02
-1.6	1.2800-03	8.0200-05	6.8500-02	7.0200-10	8.6100-01	6.8600-02
-1.4	2.1100-03	1.0500-04	5.5900-02	4.5900-10	8.8600-01	5.6000-02
-1.2	3.4500-03	1.3700-04	4.5400-02	3.0000-10	9.0500-01	4.5600-02
-1.0	5.5900-03	1.7600-04	3.6800-02	1.9700-10	9.2000-01	3.7000-02
-.8	8.9700-03	2.2600-04	2.9700-02	1.2900-10	9.3100-01	3.0000-02
-.6	1.4300-02	2.8800-04	2.4000-02	8.4800-11	9.3700-01	2.4300-02
-.4	2.2400-02	3.6300-04	1.9300-02	5.5900-11	9.3800-01	1.9700-02
-.2	3.4500-02	4.5300-04	1.5500-02	3.7100-11	9.3400-01	1.6000-02
.0	5.2300-02	5.5700-04	1.2400-02	2.4700-11	9.2200-01	1.3000-02
.2	7.7400-02	6.7300-04	9.9300-03	1.6500-11	9.0100-01	1.0600-02
.4	1.1100-01	7.9400-04	7.9000-03	1.1100-11	8.7200-01	8.6900-03
.6	1.5400-01	9.1300-04	6.2400-03	7.4600-12	8.3100-01	7.1500-03
.8	2.0700-01	1.0200-03	4.8900-03	5.0300-12	7.8100-01	5.9100-03
1.0	2.6800-01	1.1100-03	3.7900-03	3.3900-12	7.2200-01	4.9000-03
1.2	3.3600-01	1.1800-03	2.9200-03	2.2800-12	6.5600-01	4.0900-03
1.4	4.0800-01	1.2200-03	2.2200-03	1.5300-12	5.8500-01	3.4400-03
1.6	4.8200-01	1.2500-03	1.6700-03	1.0200-12	5.1300-01	2.9200-03
1.8	5.5500-01	1.2700-03	1.2500-03	6.8600-13	4.4000-01	2.5200-03
2.0	6.2600-01	1.2900-03	9.3600-04	4.6600-13	3.7000-01	2.2300-03
2.2	6.9300-01	1.3500-03	7.0400-04	3.2600-13	3.0300-01	2.0500-03

T= 11800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9985+00	4.4520+01	4.8518+01	1.2740+02	-4.7626+00	3.9989+00
-6.8	3.9974+00	4.4503+01	4.8500+01	1.2555+02	-4.5627+00	3.9979+00
-6.6	3.9958+00	4.4479+01	4.8475+01	1.2368+02	-4.3629+00	3.9965+00
-6.4	3.9934+00	4.4444+01	4.8438+01	1.2181+02	-4.1632+00	3.9943+00
-6.2	3.9898+00	4.4390+01	4.8380+01	1.1991+02	-3.9636+00	3.9908+00
-6.0	3.9842+00	4.4307+01	4.8291+01	1.1800+02	-3.7642+00	3.9855+00
-5.8	3.9756+00	4.4178+01	4.8153+01	1.1603+02	-3.5651+00	3.9772+00
-5.6	3.9623+00	4.3978+01	4.7940+01	1.1400+02	-3.3666+00	3.9643+00
-5.4	3.9420+00	4.3672+01	4.7614+01	1.1188+02	-3.1688+00	3.9445+00
-5.2	3.9118+00	4.3213+01	4.7125+01	1.0961+02	-2.9721+00	3.9148+00
-5.0	3.8675+00	4.2539+01	4.6407+01	1.0715+02	-2.7771+00	3.8712+00
-4.8	3.8050+00	4.1585+01	4.5390+01	1.0442+02	-2.5842+00	3.8094+00
-4.6	3.7205+00	4.0293+01	4.4013+01	1.0140+02	-2.3939+00	3.7257+00
-4.4	3.6124+00	3.8638+01	4.2250+01	9.8053+01	-2.2067+00	3.6184+00
-4.2	3.4825+00	3.6644+01	4.0127+01	9.4425+01	-2.0226+00	3.4892+00
-4.0	3.3359+00	3.4393+01	3.7729+01	9.0603+01	-1.8413+00	3.3431+00
-3.8	3.1804+00	3.2001+01	3.5182+01	8.6711+01	-1.6620+00	3.1880+00
-3.6	3.0243+00	2.9598+01	3.2622+01	8.2879+01	-1.4839+00	3.0320+00
-3.4	2.8747+00	2.7293+01	3.0168+01	7.9216+01	-1.3059+00	2.8824+00
-3.2	2.7369+00	2.5168+01	2.7905+01	7.5799+01	-1.1273+00	2.7444+00
-3.0	2.6138+00	2.3268+01	2.5882+01	7.2668+01	-9.4724-01	2.6210+00
-2.8	2.5066+00	2.1611+01	2.4118+01	6.9833+01	-7.6544-01	2.5133+00
-2.6	2.4149+00	2.0194+01	2.2609+01	6.7283+01	-5.8162-01	2.4212+00
-2.4	2.3377+00	1.9000+01	2.1337+01	6.4995+01	-3.9573-01	2.3435+00
-2.2	2.2733+00	1.8004+01	2.0278+01	6.2938+01	-2.0785-01	2.2788+00
-2.0	2.2202+00	1.7181+01	1.9401+01	6.1081+01	-1.8136-02	2.2251+00
-1.8	2.1763+00	1.6504+01	1.8681+01	5.9392+01	1.7321-01	2.1808+00
-1.6	2.1402+00	1.5948+01	1.8088+01	5.7842+01	3.6593-01	2.1442+00
-1.4	2.1100+00	1.5488+01	1.7598+01	5.6403+01	5.5977-01	2.1137+00
-1.2	2.0844+00	1.5102+01	1.7187+01	5.5052+01	7.5446-01	2.0876+00
-1.0	2.0616+00	1.4770+01	1.6832+01	5.3765+01	9.4969-01	2.0644+00
-.8	2.0401+00	1.4469+01	1.6509+01	5.2520+01	1.1451+00	2.0424+00
-.6	2.0179+00	1.4177+01	1.6195+01	5.1293+01	1.3404+00	2.0197+00
-.4	1.9928+00	1.3867+01	1.5860+01	5.0060+01	1.5349+00	1.9939+00
-.2	1.9624+00	1.3512+01	1.5474+01	4.8794+01	1.7283+00	1.9627+00
.0	1.9241+00	1.3084+01	1.5008+01	4.7470+01	1.9197+00	1.9233+00
.2	1.8761+00	1.2560+01	1.4436+01	4.6071+01	2.1087+00	1.8736+00
.4	1.8178+00	1.1929+01	1.3747+01	4.4589+01	2.2950+00	1.8129+00
.6	1.7502+00	1.1201+01	1.2952+01	4.3040+01	2.4786+00	1.7420+00
.8	1.6768+00	1.0403+01	1.2080+01	4.1452+01	2.6600+00	1.6636+00
1.0	1.6021+00	9.5721+00	1.1174+01	3.9866+01	2.8402+00	1.5817+00
1.2	1.5312+00	8.7492+00	1.0280+01	3.8322+01	3.0205+00	1.5004+00
1.4	1.4692+00	7.9678+00	9.4370+00	3.6850+01	3.2026+00	1.4229+00
1.6	1.4210+00	7.2507+00	8.6717+00	3.5468+01	3.3881+00	1.3515+00
1.8	1.3918+00	6.6101+00	8.0019+00	3.4181+01	3.5791+00	1.2874+00
2.0	1.3883+00	6.0496+00	7.4380+00	3.2981+01	3.7780+00	1.2309+00
2.2	1.4201+00	5.5678+00	6.9879+00	3.1855+01	3.9878+00	1.1817+00

T= 11900

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.2400-15	1.5300-12	5.0000-01	1.0300-04	3.2500-04	5.0000-01
-6.8	4.9200-15	3.8300-12	5.0000-01	6.5300-05	5.1400-04	5.0000-01
-6.6	1.9500-14	9.6100-12	5.0000-01	4.1200-05	8.1400-04	5.0000-01
-6.4	7.7400-14	2.4100-11	4.9900-01	2.6000-05	1.2900-03	4.9900-01
-6.2	3.0600-13	6.0200-11	4.9900-01	1.6500-05	2.0400-03	4.9900-01
-6.0	1.2100-12	1.5000-10	4.9800-01	1.0400-05	3.2100-03	4.9800-01
-5.8	4.7500-12	3.7400-10	4.9700-01	6.5800-06	5.0600-03	4.9700-01
-5.6	1.8500-11	9.2500-10	4.9600-01	4.1700-06	7.9500-03	4.9600-01
-5.4	7.1300-11	2.2700-09	4.9400-01	2.6500-06	1.2400-02	4.9400-01
-5.2	2.7000-10	5.5100-09	4.9000-01	1.6900-06	1.9300-02	4.9000-01
-5.0	9.9700-10	1.3100-08	4.8500-01	1.0800-06	2.9600-02	4.8500-01
-4.8	3.5600-09	3.0500-08	4.7800-01	6.9100-07	4.4700-02	4.7800-01
-4.6	1.2100-08	6.8600-08	4.6700-01	4.4700-07	6.6200-02	4.6700-01
-4.4	3.9000-08	1.4800-07	4.5200-01	2.9100-07	9.5600-02	4.5200-01
-4.2	1.1700-07	3.0400-07	4.3300-01	1.9100-07	1.3400-01	4.3300-01
-4.0	3.2700-07	5.9200-07	4.0900-01	1.2600-07	1.8100-01	4.0900-01
-3.8	8.4900-07	1.0900-06	3.8100-01	8.3800-08	2.3700-01	3.8100-01
-3.6	2.0500-06	1.9100-06	3.5000-01	5.6000-08	3.0000-01	3.5000-01
-3.4	4.6300-06	3.1900-06	3.1600-01	3.7400-08	3.6800-01	3.1600-01
-3.2	9.8700-06	5.0900-06	2.8100-01	2.5000-08	4.3800-01	2.8100-01
-3.0	2.0000-05	7.8100-06	2.4700-01	1.6700-08	5.0700-01	2.4700-01
-2.8	3.8900-05	1.1600-05	2.1300-01	1.1100-08	5.7300-01	2.1300-01
-2.6	7.2800-05	1.6800-05	1.8200-01	7.3700-09	6.3500-01	1.8200-01
-2.4	1.3200-04	2.3600-05	1.5400-01	4.8700-09	6.9100-01	1.5400-01
-2.2	2.3400-04	3.2700-05	1.2900-01	3.2100-09	7.4100-01	1.2900-01
-2.0	4.0500-04	4.4400-05	1.0700-01	2.1100-09	7.8500-01	1.0700-01
-1.8	6.9000-04	5.9600-05	8.8600-02	1.3800-09	8.2200-01	8.8600-02
-1.6	1.1600-03	7.9000-05	7.2700-02	9.0600-10	8.5300-01	7.2800-02
-1.4	1.9200-03	1.0400-04	5.9300-02	5.9300-10	8.7900-01	5.9500-02
-1.2	3.1400-03	1.3500-04	4.8300-02	3.8800-10	9.0000-01	4.8400-02
-1.0	5.1100-03	1.7500-04	3.9200-02	2.5400-10	9.1600-01	3.9300-02
-.8	8.2100-03	2.2500-04	3.1700-02	1.6700-10	9.2800-01	3.1900-02
-.6	1.3100-02	2.8700-04	2.5600-02	1.1000-10	9.3500-01	2.5900-02
-.4	2.0600-02	3.6300-04	2.0600-02	7.2700-11	9.3700-01	2.1000-02
-.2	3.1900-02	4.5400-04	1.6600-02	4.8200-11	9.3400-01	1.7000-02
.0	4.8500-02	5.6000-04	1.3300-02	3.2100-11	9.2400-01	1.3900-02
.2	7.2100-02	6.7900-04	1.0600-02	2.1500-11	9.0500-01	1.1300-02
.4	1.0400-01	8.0600-04	8.4700-03	1.4500-11	8.7700-01	9.2800-03
.6	1.4600-01	9.3200-04	6.7000-03	9.7700-12	8.3900-01	7.6400-03
.8	1.9700-01	1.0500-03	5.2700-03	6.6100-12	7.9100-01	6.3100-03
1.0	2.5600-01	1.1500-03	4.1000-03	4.4700-12	7.3300-01	5.2500-03
1.2	3.2300-01	1.2300-03	3.1600-03	3.0200-12	6.6800-01	4.3900-03
1.4	3.9500-01	1.2800-03	2.4100-03	2.0300-12	5.9800-01	3.6900-03
1.6	4.6900-01	1.3200-03	1.8300-03	1.3700-12	5.2500-01	3.1400-03
1.8	5.4200-01	1.3400-03	1.3700-03	9.2800-13	4.5200-01	2.7100-03
2.0	6.1400-01	1.3800-03	1.0300-03	6.3700-13	3.8100-01	2.4100-03
2.2	6.8300-01	1.4500-03	7.7800-04	4.5200-13	3.1200-01	2.2300-03



T= 11900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9987+00	4.4208+01	4.8206+01	1.2747+02	-4.7589+00	3.9991+00
-6.8	3.9977+00	4.4191+01	4.8189+01	1.2561+02	-4.5590+00	3.9982+00
-6.6	3.9963+00	4.4169+01	4.8166+01	1.2375+02	-4.3592+00	3.9969+00
-6.4	3.9942+00	4.4138+01	4.8132+01	1.2187+02	-4.1594+00	3.9950+00
-6.2	3.9909+00	4.4091+01	4.8082+01	1.1999+02	-3.9598+00	3.9920+00
-6.0	3.9860+00	4.4018+01	4.8004+01	1.1808+02	-3.7603+00	3.9873+00
-5.8	3.9783+00	4.3904+01	4.7882+01	1.1613+02	-3.5612+00	3.9799+00
-5.6	3.9665+00	4.3729+01	4.7695+01	1.1413+02	-3.3624+00	3.9685+00
-5.4	3.9485+00	4.3459+01	4.7408+01	1.1203+02	-3.1644+00	3.9510+00
-5.2	3.9214+00	4.3052+01	4.6973+01	1.0981+02	-2.9674+00	3.9244+00
-5.0	3.8815+00	4.2450+01	4.6331+01	1.0741+02	-2.7719+00	3.8852+00
-4.8	3.8245+00	4.1588+01	4.5413+01	1.0478+02	-2.5783+00	3.8290+00
-4.6	3.7464+00	4.0406+01	4.4152+01	1.0185+02	-2.3872+00	3.7517+00
-4.4	3.6450+00	3.8866+01	4.2511+01	9.8608+01	-2.1992+00	3.6511+00
-4.2	3.5209+00	3.6978+01	4.0499+01	9.5069+01	-2.0142+00	3.5277+00
-4.0	3.3783+00	3.4806+01	3.8185+01	9.1309+01	-1.8322+00	3.3858+00
-3.8	3.2245+00	3.2461+01	3.5686+01	8.7443+01	-1.6524+00	3.2324+00
-3.6	3.0678+00	3.0069+01	3.3137+01	8.3602+01	-1.4740+00	3.0758+00
-3.4	2.9158+00	2.7747+01	3.0662+01	7.9902+01	-1.2961+00	2.9239+00
-3.2	2.7743+00	2.5583+01	2.8357+01	7.6428+01	-1.1177+00	2.7823+00
-3.0	2.6469+00	2.3633+01	2.6280+01	7.3231+01	-9.3811-01	2.6546+00
-2.8	2.5352+00	2.1921+01	2.4456+01	7.0326+01	-7.5684-01	2.5425+00
-2.6	2.4392+00	2.0449+01	2.2889+01	6.7710+01	-5.7360-01	2.4461+00
-2.4	2.3581+00	1.9204+01	2.1562+01	6.5361+01	-3.8829-01	2.3644+00
-2.2	2.2903+00	1.8163+01	2.0454+01	6.3250+01	-2.0096-01	2.2962+00
-2.0	2.2341+00	1.7301+01	1.9535+01	6.1346+01	-1.1742-02	2.2395+00
-1.8	2.1878+00	1.6591+01	1.8779+01	5.9618+01	1.7916-01	2.1927+00
-1.6	2.1496+00	1.6007+01	1.8157+01	5.8036+01	3.7151-01	2.1540+00
-1.4	2.1179+00	1.5525+01	1.7643+01	5.6571+01	5.6505-01	2.1219+00
-1.2	2.0910+00	1.5123+01	1.7214+01	5.5200+01	7.5950-01	2.0945+00
-1.0	2.0674+00	1.4778+01	1.6846+01	5.3898+01	9.5458-01	2.0705+00
-.8	2.0455+00	1.4470+01	1.6516+01	5.2643+01	1.1499+00	2.0481+00
-.6	2.0233+00	1.4176+01	1.6200+01	5.1412+01	1.3452+00	2.0253+00
-.4	1.9987+00	1.3871+01	1.5869+01	5.0181+01	1.5399+00	2.0001+00
-.2	1.9694+00	1.3526+01	1.5495+01	4.8922+01	1.7335+00	1.9699+00
.0	1.9327+00	1.3114+01	1.5047+01	4.7611+01	1.9253+00	1.9320+00
.2	1.8866+00	1.2611+01	1.4498+01	4.6228+01	2.1148+00	1.8842+00
.4	1.8301+00	1.2003+01	1.3834+01	4.4765+01	2.3016+00	1.8254+00
.6	1.7643+00	1.1296+01	1.3060+01	4.3229+01	2.4857+00	1.7561+00
.8	1.6919+00	1.0513+01	1.2205+01	4.1650+01	2.6675+00	1.6787+00
1.0	1.6174+00	9.6900+00	1.1307+01	4.0065+01	2.8480+00	1.5970+00
1.2	1.5461+00	8.8679+00	1.0414+01	3.8515+01	3.0284+00	1.5151+00
1.4	1.4831+00	8.0814+00	9.5645+00	3.7031+01	3.2103+00	1.4365+00
1.6	1.4336+00	7.3552+00	8.7888+00	3.5634+01	3.3956+00	1.3636+00
1.8	1.4030+00	6.7031+00	8.1062+00	3.4330+01	3.5862+00	1.2979+00
2.0	1.3981+00	6.1305+00	7.5285+00	3.3113+01	3.7847+00	1.2397+00
2.2	1.4284+00	5.6365+00	7.0649+00	3.1970+01	3.9940+00	1.1888+00

T= 12000

LOG D	N2	N2+	N+	N++	N	E
-7.0	8.8300-16	1.2600-12	5.0000-01	1.3300-04	2.8600-04	5.0000-01
-6.8	3.5100-15	3.1500-12	5.0000-01	8.4000-05	4.5300-04	5.0000-01
-6.6	1.3900-14	7.9100-12	5.0000-01	5.3000-05	7.1700-04	5.0000-01
-6.4	5.5300-14	1.9800-11	4.9900-01	3.3500-05	1.1300-03	4.9900-01
-6.2	2.1900-13	4.9600-11	4.9900-01	2.1200-05	1.7900-03	4.9900-01
-6.0	8.6500-13	1.2400-10	4.9900-01	1.3400-05	2.8300-03	4.9900-01
-5.8	3.4000-12	3.0900-10	4.9800-01	8.4700-06	4.4600-03	4.9800-01
-5.6	1.3300-11	7.6500-10	4.9600-01	5.3600-06	7.0200-03	4.9600-01
-5.4	5.1400-11	1.8800-09	4.9500-01	3.4000-06	1.1000-02	4.9500-01
-5.2	1.9600-10	4.5800-09	4.9100-01	2.1600-06	1.7100-02	4.9100-01
-5.0	7.2800-10	1.1000-08	4.8700-01	1.3800-06	2.6300-02	4.8700-01
-4.8	2.6300-09	2.5700-08	4.8000-01	8.8500-07	3.9900-02	4.8000-01
-4.6	9.0700-09	5.8400-08	4.7000-01	5.7100-07	5.9500-02	4.7000-01
-4.4	2.9700-08	1.2700-07	4.5700-01	3.7100-07	8.6500-02	4.5700-01
-4.2	9.1000-08	2.6600-07	4.3900-01	2.4300-07	1.2200-01	4.3900-01
-4.0	2.5900-07	5.2500-07	4.1600-01	1.6000-07	1.6700-01	4.1600-01
-3.8	6.8600-07	9.8400-07	3.8900-01	1.0600-07	2.2100-01	3.8900-01
-3.6	1.6900-06	1.7500-06	3.5900-01	7.1000-08	2.8200-01	3.5900-01
-3.4	3.8800-06	2.9500-06	3.2600-01	4.7500-08	3.4900-01	3.2600-01
-3.2	8.4100-06	4.7600-06	2.9100-01	3.1800-08	4.1800-01	2.9100-01
-3.0	1.7300-05	7.3900-06	2.5600-01	2.1200-08	4.8800-01	2.5600-01
-2.8	3.3900-05	1.1100-05	2.2300-01	1.4100-08	5.5500-01	2.2300-01
-2.6	6.4200-05	1.6100-05	1.9100-01	9.4000-09	6.1800-01	1.9100-01
-2.4	1.1700-04	2.2900-05	1.6200-01	6.2200-09	6.7600-01	1.6200-01
-2.2	2.0900-04	3.1800-05	1.3600-01	4.1100-09	7.2800-01	1.3600-01
-2.0	3.6400-04	4.3400-05	1.1300-01	2.7000-09	7.7300-01	1.1300-01
-1.8	6.2300-04	5.8500-05	9.3600-02	1.7700-09	8.1200-01	9.3700-02
-1.6	1.0500-03	7.7800-05	7.7000-02	1.1600-09	8.4500-01	7.7000-02
-1.4	1.7500-03	1.0200-04	6.2900-02	7.6300-10	8.7200-01	6.3000-02
-1.2	2.8700-03	1.3400-04	5.1300-02	5.0000-10	8.9400-01	5.1400-02
-1.0	4.6700-03	1.7400-04	4.1600-02	3.2800-10	9.1200-01	4.1800-02
-.8	7.5300-03	2.2300-04	3.3700-02	2.1600-10	9.2500-01	3.3900-02
-.6	1.2000-02	2.8600-04	2.7300-02	1.4200-10	9.3300-01	2.7500-02
-.4	1.9000-02	3.6200-04	2.2000-02	9.4000-11	9.3600-01	2.2300-02
-.2	2.9500-02	4.5400-04	1.7700-02	6.2400-11	9.3400-01	1.8200-02
.0	4.5000-02	5.6300-04	1.4200-02	4.1700-11	9.2500-01	1.4800-02
.2	6.7200-02	6.8500-04	1.1400-02	2.8000-11	9.0900-01	1.2100-02
.4	9.7700-02	8.1700-04	9.0800-03	1.8800-11	8.8300-01	9.8900-03
.6	1.3700-01	9.5100-04	7.2000-03	1.2700-11	8.4600-01	8.1500-03
.8	1.8700-01	1.0800-03	5.6700-03	8.6400-12	8.0000-01	6.7400-03
1.0	2.4500-01	1.1900-03	4.4200-03	5.8700-12	7.4400-01	5.6100-03
1.2	3.1100-01	1.2700-03	3.4200-03	3.9800-12	6.8000-01	4.6900-03
1.4	3.8200-01	1.3400-03	2.6200-03	2.7000-12	6.1000-01	3.9600-03
1.6	4.5600-01	1.3800-03	1.9900-03	1.8300-12	5.3700-01	3.3700-03
1.8	5.3000-01	1.4200-03	1.5000-03	1.2500-12	4.6400-01	2.9200-03
2.0	6.0300-01	1.4600-03	1.1300-03	8.6700-13	3.9200-01	2.6000-03
2.2	6.7300-01	1.5500-03	8.5900-04	6.2300-13	3.2200-01	2.4100-03

T= 12000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9990+00	4.3901+01	4.7900+01	1.2753+02	-4.7553+00	3.9994+00
-6.8	3.9980+00	4.3884+01	4.7882+01	1.2567+02	-4.5554+00	3.9986+00
-6.6	3.9967+00	4.3864+01	4.7861+01	1.2381+02	-4.3555+00	3.9974+00
-6.4	3.9948+00	4.3836+01	4.7831+01	1.2194+02	-4.1557+00	3.9956+00
-6.2	3.9919+00	4.3794+01	4.7786+01	1.2006+02	-3.9560+00	3.9929+00
-6.0	3.9875+00	4.3730+01	4.7717+01	1.1816+02	-3.7565+00	3.9888+00
-5.8	3.9807+00	4.3630+01	4.7611+01	1.1622+02	-3.5573+00	3.9823+00
-5.6	3.9702+00	4.3475+01	4.7446+01	1.1424+02	-3.3584+00	3.9722+00
-5.4	3.9541+00	4.3238+01	4.7192+01	1.1217+02	-3.1602+00	3.9566+00
-5.2	3.9299+00	4.2876+01	4.6806+01	1.1000+02	-2.9628+00	3.9329+00
-5.0	3.8939+00	4.2339+01	4.6233+01	1.0766+02	-2.7668+00	3.8976+00
-4.8	3.8420+00	4.1562+01	4.5404+01	1.0510+02	-2.5727+00	3.8465+00
-4.6	3.7701+00	4.0483+01	4.4253+01	1.0227+02	-2.3809+00	3.7755+00
-4.4	3.6753+00	3.9055+01	4.2730+01	9.9124+01	-2.1919+00	3.6815+00
-4.2	3.5572+00	3.7274+01	4.0831+01	9.5677+01	-2.0061+00	3.5642+00
-4.0	3.4191+00	3.5190+01	3.8609+01	9.1985+01	-1.8233+00	3.4268+00
-3.8	3.2676+00	3.2900+01	3.6167+01	8.8155+01	-1.6430+00	3.2758+00
-3.6	3.1110+00	3.0528+01	3.3639+01	8.4314+01	-1.4643+00	3.1194+00
-3.4	2.9570+00	2.8195+01	3.1152+01	8.0584+01	-1.2864+00	2.9655+00
-3.2	2.8122+00	2.5999+01	2.8811+01	7.7060+01	-1.1082+00	2.8206+00
-3.0	2.6807+00	2.4002+01	2.6683+01	7.3799+01	-9.2897-01	2.6889+00
-2.8	2.5646+00	2.2238+01	2.4802+01	7.0828+01	-7.4819-01	2.5724+00
-2.6	2.4644+00	2.0713+01	2.3177+01	6.8145+01	-5.6551-01	2.4717+00
-2.4	2.3792+00	1.9417+01	2.1796+01	6.5735+01	-3.8078-01	2.3861+00
-2.2	2.3079+00	1.8330+01	2.0638+01	6.3569+01	-1.9400-01	2.3142+00
-2.0	2.2487+00	1.7428+01	1.9677+01	6.1619+01	-5.2883-03	2.2545+00
-1.8	2.1998+00	1.6684+01	1.8884+01	5.9850+01	1.8516-01	2.2051+00
-1.6	2.1595+00	1.6071+01	1.8231+01	5.8234+01	3.7713-01	2.1643+00
-1.4	2.1260+00	1.5567+01	1.7693+01	5.6743+01	5.7035-01	2.1304+00
-1.2	2.0979+00	1.5146+01	1.7244+01	5.5350+01	7.6456-01	2.1017+00
-1.0	2.0734+00	1.4789+01	1.6862+01	5.4033+01	9.5946-01	2.0768+00
-.8	2.0509+00	1.4473+01	1.6524+01	5.2767+01	1.1547+00	2.0538+00
-.6	2.0287+00	1.4176+01	1.6205+01	5.1531+01	1.3500+00	2.0309+00
-.4	2.0045+00	1.3873+01	1.5877+01	5.0299+01	1.5448+00	2.0061+00
-.2	1.9760+00	1.3537+01	1.5513+01	4.9046+01	1.7386+00	1.9767+00
.0	1.9407+00	1.3140+01	1.5081+01	4.7747+01	1.9307+00	1.9402+00
.2	1.8964+00	1.2656+01	1.4553+01	4.6379+01	2.1207+00	1.8942+00
.4	1.8418+00	1.2070+01	1.3912+01	4.4932+01	2.3080+00	1.8372+00
.6	1.7776+00	1.1384+01	1.3161+01	4.3412+01	2.4926+00	1.7695+00
.8	1.7063+00	1.0616+01	1.2322+01	4.1842+01	2.6748+00	1.6932+00
1.0	1.6323+00	9.8022+00	1.1435+01	4.0259+01	2.8556+00	1.6118+00
1.2	1.5607+00	8.9821+00	1.0543+01	3.8704+01	3.0361+00	1.5295+00
1.4	1.4969+00	8.1916+00	9.6885+00	3.7210+01	3.2180+00	1.4499+00
1.6	1.4462+00	7.4573+00	8.9034+00	3.5798+01	3.4030+00	1.3756+00
1.8	1.4142+00	6.7946+00	8.2088+00	3.4478+01	3.5933+00	1.3083+00
2.0	1.4078+00	6.2103+00	7.6181+00	3.3245+01	3.7913+00	1.2485+00
2.2	1.4367+00	5.7047+00	7.1414+00	3.2086+01	4.0001+00	1.1961+00

T= 12100

LOG D	N2	N2+	N+	N++	N	E
-7.0	6.3400-16	1.0400-12	5.0000-01	1.7000-04	2.5200-04	5.0000-01
-6.8	2.5200-15	2.6100-12	5.0000-01	1.0800-04	3.9900-04	5.0000-01
-6.6	1.0000-14	6.5400-12	5.0000-01	6.7900-05	6.3200-04	5.0000-01
-6.4	3.9700-14	1.6400-11	4.9900-01	4.2900-05	1.0000-03	5.0000-01
-6.2	1.5700-13	4.1000-11	4.9900-01	2.7100-05	1.5800-03	4.9900-01
-6.0	6.2200-13	1.0300-10	4.9900-01	1.7100-05	2.5000-03	4.9900-01
-5.8	2.4500-12	2.5600-10	4.9800-01	1.0800-05	3.9500-03	4.9800-01
-5.6	9.5900-12	6.3400-10	4.9700-01	6.8600-06	6.2100-03	4.9700-01
-5.4	3.7200-11	1.5600-09	4.9500-01	4.3500-06	9.7300-03	4.9500-01
-5.2	1.4200-10	3.8200-09	4.9200-01	2.7700-06	1.5100-02	4.9200-01
-5.0	5.3300-10	9.2000-09	4.8800-01	1.7600-06	2.3400-02	4.8800-01
-4.8	1.9400-09	2.1700-08	4.8200-01	1.1300-06	3.5700-02	4.8200-01
-4.6	6.7900-09	4.9700-08	4.7300-01	7.2700-07	5.3500-02	4.7300-01
-4.4	2.2600-08	1.1000-07	4.6100-01	4.7200-07	7.8300-02	4.6100-01
-4.2	7.0500-08	2.3200-07	4.4400-01	3.0800-07	1.1200-01	4.4400-01
-4.0	2.0500-07	4.6500-07	4.2300-01	2.0300-07	1.5400-01	4.2300-01
-3.8	5.5400-07	8.8500-07	3.9700-01	1.3500-07	2.0600-01	3.9700-01
-3.6	1.3900-06	1.5900-06	3.6800-01	8.9800-08	2.6500-01	3.6800-01
-3.4	3.2500-06	2.7300-06	3.3500-01	6.0000-08	3.3000-01	3.3500-01
-3.2	7.1500-06	4.4600-06	3.0100-01	4.0200-08	3.9900-01	3.0100-01
-3.0	1.4900-05	6.9900-06	2.6600-01	2.6900-08	4.6800-01	2.6600-01
-2.8	2.9600-05	1.0600-05	2.3200-01	1.7900-08	5.3700-01	2.3200-01
-2.6	5.6500-05	1.5500-05	1.9900-01	1.1900-08	6.0100-01	1.9900-01
-2.4	1.0400-04	2.2100-05	1.7000-01	7.9100-09	6.6000-01	1.7000-01
-2.2	1.8700-04	3.0900-05	1.4300-01	5.2300-09	7.1400-01	1.4300-01
-2.0	3.2800-04	4.2500-05	1.1900-01	3.4500-09	7.6100-01	1.1900-01
-1.8	5.6300-04	5.7400-05	9.8800-02	2.2700-09	8.0200-01	9.8900-02
-1.6	9.5200-04	7.6600-05	8.1400-02	1.4900-09	8.3600-01	8.1400-02
-1.4	1.5900-03	1.0100-04	6.6600-02	9.7700-10	8.6500-01	6.6800-02
-1.2	2.6200-03	1.3200-04	5.4400-02	6.4100-10	8.8800-01	5.4500-02
-1.0	4.2700-03	1.7200-04	4.4200-02	4.2100-10	9.0700-01	4.4400-02
-.8	6.9000-03	2.2200-04	3.5800-02	2.7700-10	9.2100-01	3.6100-02
-.6	1.1000-02	2.8400-04	2.9000-02	1.8300-10	9.3000-01	2.9300-02
-.4	1.7500-02	3.6100-04	2.3400-02	1.2100-10	9.3500-01	2.3800-02
-.2	2.7200-02	4.5500-04	1.8900-02	8.0500-11	9.3400-01	1.9300-02
.0	4.1800-02	5.6500-04	1.5200-02	5.3800-11	9.2700-01	1.5700-02
.2	6.2700-02	6.9100-04	1.2200-02	3.6100-11	9.1200-01	1.2900-02
.4	9.1600-02	8.2800-04	9.7100-03	2.4400-11	8.8700-01	1.0500-02
.6	1.3000-01	9.6900-04	7.7200-03	1.6600-11	8.5300-01	8.6800-03
.8	1.7700-01	1.1000-03	6.0900-03	1.1300-11	8.0800-01	7.1900-03
1.0	2.3400-01	1.2200-03	4.7600-03	7.6700-12	7.5400-01	5.9900-03
1.2	2.9900-01	1.3200-03	3.7000-03	5.2300-12	6.9100-01	5.0200-03
1.4	3.7000-01	1.4000-03	2.8400-03	3.5700-12	6.2200-01	4.2400-03
1.6	4.4300-01	1.4500-03	2.1600-03	2.4400-12	5.5000-01	3.6200-03
1.8	5.1800-01	1.5000-03	1.6400-03	1.6800-12	4.7600-01	3.1400-03
2.0	5.9200-01	1.5600-03	1.2400-03	1.1700-12	4.0300-01	2.8000-03
2.2	6.6300-01	1.6600-03	9.4700-04	8.5500-13	3.3200-01	2.6000-03

T= 12100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9993+00	4.3599+01	4.7599+01	1.2759+02	-4.7516+00	3.9997+00
-6.8	3.9984+00	4.3583+01	4.7581+01	1.2573+02	-4.5517+00	3.9989+00
-6.6	3.9971+00	4.3564+01	4.7561+01	1.2387+02	-4.3519+00	3.9978+00
-6.4	3.9954+00	4.3538+01	4.7534+01	1.2201+02	-4.1521+00	3.9962+00
-6.2	3.9928+00	4.3501+01	4.7493+01	1.2013+02	-3.9523+00	3.9938+00
-6.0	3.9889+00	4.3444+01	4.7433+01	1.1823+02	-3.7528+00	3.9901+00
-5.8	3.9828+00	4.3356+01	4.7338+01	1.1631+02	-3.5534+00	3.9844+00
-5.6	3.9734+00	4.3219+01	4.7193+01	1.1434+02	-3.3544+00	3.9754+00
-5.4	3.9591+00	4.3009+01	4.6968+01	1.1230+02	-3.1560+00	3.9615+00
-5.2	3.9373+00	4.2689+01	4.6626+01	1.1017+02	-2.9584+00	3.9403+00
-5.0	3.9049+00	4.2209+01	4.6114+01	1.0788+02	-2.7620+00	3.9086+00
-4.8	3.8578+00	4.1510+01	4.5368+01	1.0539+02	-2.5673+00	3.8623+00
-4.6	3.7917+00	4.0527+01	4.4318+01	1.0265+02	-2.3748+00	3.7970+00
-4.4	3.7032+00	3.9207+01	4.2910+01	9.9601+01	-2.1850+00	3.7095+00
-4.2	3.5913+00	3.7534+01	4.1125+01	9.6247+01	-1.9984+00	3.5984+00
-4.0	3.4582+00	3.5541+01	3.8999+01	9.2630+01	-1.8148+00	3.4661+00
-3.8	3.3096+00	3.3313+01	3.6623+01	8.8844+01	-1.6338+00	3.3181+00
-3.6	3.1536+00	3.0971+01	3.4124+01	8.5013+01	-1.4548+00	3.1624+00
-3.4	2.9982+00	2.8636+01	3.1634+01	8.1261+01	-1.2768+00	3.0072+00
-3.2	2.8505+00	2.6413+01	2.9264+01	7.7692+01	-1.0987+00	2.8594+00
-3.0	2.7151+00	2.4374+01	2.7089+01	7.4372+01	-9.1983-01	2.7238+00
-2.8	2.5947+00	2.2560+01	2.5154+01	7.1336+01	-7.3952-01	2.6030+00
-2.6	2.4902+00	2.0982+01	2.3473+01	6.8588+01	-5.5738-01	2.4980+00
-2.4	2.4011+00	1.9636+01	2.2037+01	6.6116+01	-3.7321-01	2.4084+00
-2.2	2.3261+00	1.8504+01	2.0830+01	6.3896+01	-1.8698-01	2.3329+00
-2.0	2.2638+00	1.7561+01	1.9825+01	6.1897+01	1.2198-03	2.2700+00
-1.8	2.2122+00	1.6782+01	1.8995+01	6.0088+01	1.9122-01	2.2179+00
-1.6	2.1697+00	1.6141+01	1.8311+01	5.8438+01	3.8278-01	2.1749+00
-1.4	2.1345+00	1.5612+01	1.7747+01	5.6918+01	5.7568-01	2.1392+00
-1.2	2.1050+00	1.5174+01	1.7279+01	5.5504+01	7.6963-01	2.1091+00
-1.0	2.0795+00	1.4803+01	1.6882+01	5.4169+01	9.6434-01	2.0832+00
-.8	2.0564+00	1.4478+01	1.6534+01	5.2892+01	1.1595+00	2.0596+00
-.6	2.0340+00	1.4176+01	1.6210+01	5.1649+01	1.3547+00	2.0366+00
-.4	2.0101+00	1.3875+01	1.5885+01	5.0416+01	1.5496+00	2.0120+00
-.2	1.9824+00	1.3546+01	1.5529+01	4.9168+01	1.7436+00	1.9834+00
.0	1.9485+00	1.3163+01	1.5111+01	4.7879+01	1.9361+00	1.9481+00
.2	1.9058+00	1.2697+01	1.4603+01	4.6526+01	2.1265+00	1.9038+00
.4	1.8532+00	1.2133+01	1.3986+01	4.5095+01	2.3143+00	1.8487+00
.6	1.7907+00	1.1467+01	1.3257+01	4.3590+01	2.4994+00	1.7826+00
.8	1.7206+00	1.0716+01	1.2436+01	4.2030+01	2.6821+00	1.7075+00
1.0	1.6471+00	9.9121+00	1.1559+01	4.0451+01	2.8631+00	1.6266+00
1.2	1.5753+00	9.0951+00	1.0670+01	3.8892+01	3.0438+00	1.5439+00
1.4	1.5108+00	8.3017+00	9.8124+00	3.7388+01	3.2256+00	1.4634+00
1.6	1.4589+00	7.5598+00	9.0187+00	3.5963+01	3.4104+00	1.3878+00
1.8	1.4255+00	6.8870+00	8.3126+00	3.4627+01	3.6004+00	1.3190+00
2.0	1.4177+00	6.2912+00	7.7090+00	3.3378+01	3.7980+00	1.2575+00
2.2	1.4452+00	5.7740+00	7.2192+00	3.2203+01	4.0063+00	1.2035+00

T= 12200

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.5700-16	8.5900-13	5.0000-01	2.1700-04	2.2300-04	5.0000-01
-6.8	1.8200-15	2.1600-12	5.0000-01	1.3700-04	3.5300-04	5.0000-01
-6.6	7.2200-15	5.4100-12	5.0000-01	8.6700-05	5.5900-04	5.0000-01
-6.4	2.8700-14	1.3600-11	4.9900-01	5.4800-05	8.8500-04	5.0000-01
-6.2	1.1400-13	3.4000-11	4.9900-01	3.4600-05	1.4000-03	4.9900-01
-6.0	4.5000-13	8.5000-11	4.9900-01	2.1900-05	2.2100-03	4.9900-01
-5.8	1.7700-12	2.1200-10	4.9800-01	1.3800-05	3.4900-03	4.9800-01
-5.6	6.9500-12	5.2700-10	4.9700-01	8.7500-06	5.5000-03	4.9700-01
-5.4	2.7000-11	1.3000-09	4.9600-01	5.5500-06	8.6300-03	4.9600-01
-5.2	1.0400-10	3.1900-09	4.9300-01	3.5200-06	1.3500-02	4.9300-01
-5.0	3.9100-10	7.7100-09	4.9000-01	2.2400-06	2.0800-02	4.9000-01
-4.8	1.4400-09	1.8300-08	4.8400-01	1.4400-06	3.1900-02	4.8400-01
-4.6	5.0900-09	4.2300-08	4.7600-01	9.2300-07	4.8000-02	4.7600-01
-4.4	1.7200-08	9.4400-08	4.6500-01	5.9800-07	7.0900-02	4.6500-01
-4.2	5.4600-08	2.0200-07	4.4900-01	3.9000-07	1.0200-01	4.4900-01
-4.0	1.6200-07	4.1100-07	4.2900-01	2.5600-07	1.4200-01	4.2900-01
-3.8	4.4600-07	7.9300-07	4.0500-01	1.7000-07	1.9100-01	4.0500-01
-3.6	1.1400-06	1.4500-06	3.7600-01	1.1300-07	2.4800-01	3.7600-01
-3.4	2.7200-06	2.5100-06	3.4400-01	7.5600-08	3.1200-01	3.4400-01
-3.2	6.0800-06	4.1600-06	3.1000-01	5.0600-08	3.8000-01	3.1000-01
-3.0	1.2800-05	6.5900-06	2.7500-01	3.3900-08	4.5000-01	2.7500-01
-2.8	2.5800-05	1.0100-05	2.4100-01	2.2600-08	5.1800-01	2.4100-01
-2.6	4.9700-05	1.4900-05	2.0800-01	1.5100-08	5.8400-01	2.0800-01
-2.4	9.2600-05	2.1400-05	1.7800-01	1.0000-08	6.4500-01	1.7800-01
-2.2	1.6700-04	3.0100-05	1.5000-01	6.6300-09	7.0000-01	1.5000-01
-2.0	2.9500-04	4.1400-05	1.2500-01	4.3800-09	7.4900-01	1.2600-01
-1.8	5.0900-04	5.6200-05	1.0400-01	2.8800-09	7.9100-01	1.0400-01
-1.6	8.6400-04	7.5300-05	8.5900-02	1.9000-09	8.2700-01	8.6000-02
-1.4	1.4500-03	9.9700-05	7.0500-02	1.2500-09	8.5700-01	7.0600-02
-1.2	2.3900-03	1.3100-04	5.7600-02	8.1900-10	8.8200-01	5.7700-02
-1.0	3.9100-03	1.7000-04	4.6900-02	5.3800-10	9.0200-01	4.7000-02
-.8	6.3400-03	2.2000-04	3.8000-02	3.5500-10	9.1700-01	3.8300-02
-.6	1.0200-02	2.8300-04	3.0800-02	2.3400-10	9.2800-01	3.1100-02
-.4	1.6100-02	3.6000-04	2.4900-02	1.5500-10	9.3300-01	2.5300-02
-.2	2.5200-02	4.5500-04	2.0100-02	1.0300-10	9.3400-01	2.0500-02
.0	3.8800-02	5.6700-04	1.6200-02	6.9200-11	9.2800-01	1.6700-02
.2	5.8500-02	6.9600-04	1.3000-02	4.6600-11	9.1400-01	1.3700-02
.4	8.5900-02	8.3800-04	1.0400-02	3.1500-11	8.9200-01	1.1200-02
.6	1.2200-01	9.8500-04	8.2600-03	2.1400-11	8.5900-01	9.2500-03
.8	1.6800-01	1.1300-03	6.5300-03	1.4600-11	8.1600-01	7.6600-03
1.0	2.2400-01	1.2600-03	5.1300-03	9.9900-12	7.6300-01	6.3900-03
1.2	2.8700-01	1.3700-03	3.9900-03	6.8400-12	7.0200-01	5.3600-03
1.4	3.5700-01	1.4600-03	3.0700-03	4.6900-12	6.3400-01	4.5300-03
1.6	4.3100-01	1.5200-03	2.3500-03	3.2300-12	5.6100-01	3.8800-03
1.8	5.0600-01	1.5800-03	1.7900-03	2.2400-12	4.8700-01	3.3700-03
2.0	5.8000-01	1.6500-03	1.3600-03	1.5900-12	4.1400-01	3.0100-03
2.2	6.5300-01	1.7700-03	1.0400-03	1.1700-12	3.4200-01	2.8100-03

T= 12200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	3.9996+00	4.3304+01	4.7304+01	1.2765+02	-4.7480+00	4.0000+00
-6.8	3.9987+00	4.3287+01	4.7285+01	1.2579+02	-4.5481+00	3.9992+00
-6.6	3.9975+00	4.3268+01	4.7265+01	1.2393+02	-4.3483+00	3.9981+00
-6.4	3.9959+00	4.3244+01	4.7240+01	1.2207+02	-4.1484+00	3.9967+00
-6.2	3.9936+00	4.3211+01	4.7204+01	1.2020+02	-3.9487+00	3.9946+00
-6.0	3.9900+00	4.3160+01	4.7150+01	1.1831+02	-3.7491+00	3.9913+00
-5.8	3.9846+00	4.3082+01	4.7067+01	1.1639+02	-3.5497+00	3.9862+00
-5.6	3.9762+00	4.2962+01	4.6938+01	1.1444+02	-3.3506+00	3.9782+00
-5.4	3.9634+00	4.2776+01	4.6739+01	1.1242+02	-3.1520+00	3.9658+00
-5.2	3.9439+00	4.2491+01	4.6435+01	1.1032+02	-2.9541+00	3.9469+00
-5.0	3.9147+00	4.2063+01	4.5978+01	1.0808+02	-2.7573+00	3.9184+00
-4.8	3.8719+00	4.1434+01	4.5306+01	1.0566+02	-2.5621+00	3.8764+00
-4.6	3.8113+00	4.0540+01	4.4352+01	1.0299+02	-2.3690+00	3.8167+00
-4.4	3.7290+00	3.9324+01	4.3054+01	1.0004+02	-2.1784+00	3.7354+00
-4.2	3.6233+00	3.7758+01	4.1381+01	9.6781+01	-1.9909+00	3.6306+00
-4.0	3.4955+00	3.5860+01	3.9355+01	9.3243+01	-1.8065+00	3.5036+00
-3.8	3.3504+00	3.3703+01	3.7053+01	8.9509+01	-1.6249+00	3.3591+00
-3.6	3.1955+00	3.1398+01	3.4593+01	8.5696+01	-1.4455+00	3.2048+00
-3.4	3.0393+00	2.9069+01	3.2108+01	8.1931+01	-1.2673+00	3.0487+00
-3.2	2.8890+00	2.6826+01	2.9715+01	7.8324+01	-1.0893+00	2.8984+00
-3.0	2.7500+00	2.4749+01	2.7499+01	7.4949+01	-9.1071-01	2.7592+00
-2.8	2.6255+00	2.2887+01	2.5513+01	7.1850+01	-7.3083-01	2.6343+00
-2.6	2.5167+00	2.1259+01	2.3776+01	6.9039+01	-5.4920-01	2.5251+00
-2.4	2.4236+00	1.9863+01	2.2287+01	6.6506+01	-3.6558-01	2.4314+00
-2.2	2.3450+00	1.8685+01	2.1030+01	6.4230+01	-1.7990-01	2.3523+00
-2.0	2.2794+00	1.7701+01	1.9981+01	6.2182+01	7.7862-03	2.2862+00
-1.8	2.2251+00	1.6887+01	1.9112+01	6.0331+01	1.9732-01	2.2313+00
-1.6	2.1803+00	1.6216+01	1.8396+01	5.8646+01	3.8848-01	2.1859+00
-1.4	2.1433+00	1.5663+01	1.7806+01	5.7097+01	5.8103-01	2.1483+00
-1.2	2.1123+00	1.5205+01	1.7317+01	5.5659+01	7.7471-01	2.1168+00
-1.0	2.0857+00	1.4819+01	1.6905+01	5.4307+01	9.6922-01	2.0898+00
-.8	2.0620+00	1.4484+01	1.6546+01	5.3017+01	1.1643+00	2.0655+00
-.6	2.0393+00	1.4178+01	1.6217+01	5.1767+01	1.3594+00	2.0422+00
-.4	2.0156+00	1.3877+01	1.5892+01	5.0532+01	1.5544+00	2.0177+00
-.2	1.9886+00	1.3554+01	1.5543+01	4.9287+01	1.7485+00	1.9898+00
.0	1.9558+00	1.3182+01	1.5138+01	4.8007+01	1.9413+00	1.9557+00
.2	1.9148+00	1.2734+01	1.4649+01	4.6667+01	2.1321+00	1.9130+00
.4	1.8640+00	1.2190+01	1.4054+01	4.5252+01	2.3204+00	1.8596+00
.6	1.8032+00	1.1544+01	1.3348+01	4.3762+01	2.5060+00	1.7953+00
.8	1.7345+00	1.0810+01	1.2545+01	4.2213+01	2.6891+00	1.7214+00
1.0	1.6616+00	1.0018+01	1.1679+01	4.0639+01	2.8705+00	1.6410+00
1.2	1.5898+00	9.2051+00	1.0795+01	3.9077+01	3.0513+00	1.5582+00
1.4	1.5246+00	8.4098+00	9.9343+00	3.7565+01	3.2331+00	1.4769+00
1.6	1.4716+00	7.6613+00	9.1329+00	3.6127+01	3.4178+00	1.4001+00
1.8	1.4370+00	6.9790+00	8.4159+00	3.4776+01	3.6074+00	1.3297+00
2.0	1.4278+00	6.3721+00	7.7999+00	3.3511+01	3.8046+00	1.2666+00
2.2	1.4539+00	5.8435+00	7.2974+00	3.2320+01	4.0125+00	1.2110+00

T= 12300

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.3100-16	7.1400-13	4.9900-01	2.7600-04	1.9700-04	5.0000-01
-6.8	1.3200-15	1.7900-12	5.0000-01	1.7400-04	3.1300-04	5.0000-01
-6.6	5.2300-15	4.5000-12	5.0000-01	1.1000-04	4.9500-04	5.0000-01
-6.4	2.0800-14	1.1300-11	5.0000-01	6.9600-05	7.8400-04	5.0000-01
-6.2	8.2400-14	2.8300-11	4.9900-01	4.4000-05	1.2400-03	4.9900-01
-6.0	3.2600-13	7.0800-11	4.9900-01	2.7800-05	1.9600-03	4.9900-01
-5.8	1.2900-12	1.7700-10	4.9800-01	1.7600-05	3.1000-03	4.9800-01
-5.6	5.0600-12	4.4000-10	4.9800-01	1.1100-05	4.8800-03	4.9800-01
-5.4	1.9700-11	1.0900-09	4.9600-01	7.0400-06	7.6600-03	4.9600-01
-5.2	7.6000-11	2.6700-09	4.9400-01	4.4700-06	1.2000-02	4.9400-01
-5.0	2.8800-10	6.4900-09	4.9100-01	2.8500-06	1.8600-02	4.9100-01
-4.8	1.0700-09	1.5500-08	4.8600-01	1.8200-06	2.8500-02	4.8600-01
-4.6	3.8200-09	3.6000-08	4.7800-01	1.1700-06	4.3200-02	4.7800-01
-4.4	1.3100-08	8.1300-08	4.6800-01	7.5500-07	6.4100-02	4.6800-01
-4.2	4.2200-08	1.7600-07	4.5400-01	4.9100-07	9.2700-02	4.5400-01
-4.0	1.2700-07	3.6300-07	4.3500-01	3.2200-07	1.3000-01	4.3500-01
-3.8	3.5800-07	7.1000-07	4.1200-01	2.1300-07	1.7700-01	4.1200-01
-3.6	9.3400-07	1.3200-06	3.8400-01	1.4200-07	2.3200-01	3.8400-01
-3.4	2.2700-06	2.3100-06	3.5300-01	9.4800-08	2.9400-01	3.5300-01
-3.2	5.1500-06	3.8700-06	3.1900-01	6.3500-08	3.6200-01	3.1900-01
-3.0	1.1000-05	6.2100-06	2.8400-01	4.2500-08	4.3100-01	2.8400-01
-2.8	2.2500-05	9.5700-06	2.5000-01	2.8500-08	5.0000-01	2.5000-01
-2.6	4.3700-05	1.4300-05	2.1700-01	1.9000-08	5.6700-01	2.1700-01
-2.4	8.2100-05	2.0600-05	1.8500-01	1.2600-08	6.2900-01	1.8500-01
-2.2	1.4900-04	2.9200-05	1.5700-01	8.3800-09	6.8600-01	1.5700-01
-2.0	2.6500-04	4.0500-05	1.3200-01	5.5400-09	7.3600-01	1.3200-01
-1.8	4.6000-04	5.5100-05	1.1000-01	3.6500-09	7.8000-01	1.1000-01
-1.6	7.8400-04	7.4100-05	9.0600-02	2.4100-09	8.1800-01	9.0700-02
-1.4	1.3200-03	9.8400-05	7.4500-02	1.5800-09	8.5000-01	7.4600-02
-1.2	2.1800-03	1.3000-04	6.0900-02	1.0400-09	8.7600-01	6.1000-02
-1.0	3.5800-03	1.6900-04	4.9600-02	6.8600-10	8.9700-01	4.9800-02
-.8	5.8200-03	2.1900-04	4.0300-02	4.5200-10	9.1300-01	4.0600-02
-.6	9.3500-03	2.8200-04	3.2700-02	2.9900-10	9.2500-01	3.3000-02
-.4	1.4900-02	3.6000-04	2.6500-02	1.9800-10	9.3200-01	2.6800-02
-.2	2.3300-02	4.5500-04	2.1400-02	1.3200-10	9.3300-01	2.1800-02
.0	3.6000-02	5.6900-04	1.7200-02	8.8700-11	9.2800-01	1.7800-02
.2	5.4500-02	7.0100-04	1.3800-02	5.9700-11	9.1600-01	1.4500-02
.4	8.0400-02	8.4800-04	1.1100-02	4.0500-11	8.9600-01	1.1900-02
.6	1.1500-01	1.0000-03	8.8300-03	2.7600-11	8.6500-01	9.8400-03
.8	1.6000-01	1.1600-03	7.0000-03	1.8900-11	8.2400-01	8.1600-03
1.0	2.1400-01	1.3000-03	5.5100-03	1.3000-11	7.7300-01	6.8000-03
1.2	2.7600-01	1.4200-03	4.3000-03	8.9200-12	7.1200-01	5.7200-03
1.4	3.4500-01	1.5200-03	3.3200-03	6.1500-12	6.4500-01	4.8400-03
1.6	4.1900-01	1.6000-03	2.5500-03	4.2600-12	5.7300-01	4.1500-03
1.8	4.9400-01	1.6700-03	1.9500-03	2.9800-12	4.9900-01	3.6200-03
2.0	5.6900-01	1.7500-03	1.4900-03	2.1300-12	4.2500-01	3.2400-03
2.2	6.4200-01	1.8900-03	1.1400-03	1.6000-12	3.5200-01	3.0400-03



T= 12300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0000+00	4.3015+01	4.7015+01	1.2771+02	-4.7444+00	4.0003+00
-6.8	3.9990+00	4.2996+01	4.6995+01	1.2585+02	-4.5445+00	3.9995+00
-6.6	3.9979+00	4.2977+01	4.6975+01	1.2399+02	-4.3447+00	3.9985+00
-6.4	3.9964+00	4.2955+01	4.6951+01	1.2213+02	-4.1448+00	3.9972+00
-6.2	3.9943+00	4.2924+01	4.6918+01	1.2026+02	-3.9451+00	3.9952+00
-6.0	3.9911+00	4.2879+01	4.6870+01	1.1838+02	-3.7454+00	3.9923+00
-5.8	3.9862+00	4.2810+01	4.6796+01	1.1647+02	-3.5459+00	3.9877+00
-5.6	3.9787+00	4.2703+01	4.6682+01	1.1453+02	-3.3468+00	3.9806+00
-5.4	3.9672+00	4.2538+01	4.6506+01	1.1253+02	-3.1480+00	3.9696+00
-5.2	3.9497+00	4.2286+01	4.6236+01	1.1046+02	-2.9499+00	3.9527+00
-5.0	3.9234+00	4.1904+01	4.5827+01	1.0826+02	-2.7528+00	3.9270+00
-4.8	3.8845+00	4.1338+01	4.5223+01	1.0590+02	-2.5572+00	3.8890+00
-4.6	3.8290+00	4.0527+01	4.4356+01	1.0331+02	-2.3634+00	3.8344+00
-4.4	3.7527+00	3.9409+01	4.3162+01	1.0045+02	-2.1721+00	3.7591+00
-4.2	3.6532+00	3.7948+01	4.1601+01	9.7279+01	-1.9838+00	3.6606+00
-4.0	3.5309+00	3.6147+01	3.9678+01	9.3824+01	-1.7986+00	3.5392+00
-3.8	3.3897+00	3.4065+01	3.7455+01	9.0148+01	-1.6163+00	3.3988+00
-3.6	3.2367+00	3.1806+01	3.5043+01	8.6363+01	-1.4364+00	3.2463+00
-3.4	3.0801+00	2.9491+01	3.2571+01	8.2592+01	-1.2579+00	3.0900+00
-3.2	2.9277+00	2.7234+01	3.0162+01	7.8953+01	-1.0800+00	2.9376+00
-3.0	2.7854+00	2.5125+01	2.7910+01	7.5529+01	-9.0161-01	2.7951+00
-2.8	2.6569+00	2.3219+01	2.5876+01	7.2370+01	-7.2212-01	2.6663+00
-2.6	2.5439+00	2.1542+01	2.4086+01	6.9496+01	-5.4099-01	2.5529+00
-2.4	2.4468+00	2.0097+01	2.2544+01	6.6903+01	-3.5790-01	2.4552+00
-2.2	2.3645+00	1.8872+01	2.1237+01	6.4571+01	-1.7276-01	2.3723+00
-2.0	2.2956+00	1.7848+01	2.0143+01	6.2473+01	1.4407-02	2.3029+00
-1.8	2.2385+00	1.6997+01	1.9236+01	6.0579+01	2.0347-01	2.2452+00
-1.6	2.1913+00	1.6296+01	1.8487+01	5.8858+01	3.9422-01	2.1974+00
-1.4	2.1524+00	1.5718+01	1.7870+01	5.7280+01	5.8642-01	2.1578+00
-1.2	2.1199+00	1.5239+01	1.7359+01	5.5818+01	7.7981-01	2.1248+00
-1.0	2.0922+00	1.4838+01	1.6930+01	5.4448+01	9.7411-01	2.0966+00
-.8	2.0677+00	1.4493+01	1.6560+01	5.3144+01	1.1690+00	2.0715+00
-.6	2.0447+00	1.4180+01	1.6225+01	5.1885+01	1.3641+00	2.0478+00
-.4	2.0211+00	1.3878+01	1.5900+01	5.0647+01	1.5591+00	2.0235+00
-.2	1.9947+00	1.3561+01	1.5555+01	4.9405+01	1.7534+00	1.9961+00
.0	1.9629+00	1.3200+01	1.5163+01	4.8132+01	1.9464+00	1.9631+00
.2	1.9235+00	1.2768+01	1.4691+01	4.6805+01	2.1376+00	1.9218+00
.4	1.8744+00	1.2243+01	1.4118+01	4.5405+01	2.3264+00	1.8703+00
.6	1.8154+00	1.1618+01	1.3433+01	4.3930+01	2.5125+00	1.8076+00
.8	1.7481+00	1.0902+01	1.2650+01	4.2393+01	2.6961+00	1.7350+00
1.0	1.6760+00	1.0121+01	1.1797+01	4.0824+01	2.8778+00	1.6554+00
1.2	1.6043+00	9.3138+00	1.0918+01	3.9262+01	3.0588+00	1.5725+00
1.4	1.5385+00	8.5174+00	1.0056+01	3.7742+01	3.2406+00	1.4905+00
1.6	1.4845+00	7.7631+00	9.2476+00	3.6292+01	3.4251+00	1.4125+00
1.8	1.4486+00	7.0717+00	8.5202+00	3.4926+01	3.6144+00	1.3406+00
2.0	1.4380+00	6.4541+00	7.8921+00	3.3645+01	3.8113+00	1.2759+00
2.2	1.4627+00	5.9142+00	7.3769+00	3.2439+01	4.0187+00	1.2187+00

T= 12400

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.4100-16	5.9500-13	4.9900-01	3.5000-04	1.7500-04	5.0000-01
-6.8	9.6000-16	1.4900-12	5.0000-01	2.2100-04	2.7800-04	5.0000-01
-6.6	3.8200-15	3.7500-12	5.0000-01	1.3900-04	4.4000-04	5.0000-01
-6.4	1.5200-14	9.4000-12	5.0000-01	8.8100-05	6.9600-04	5.0000-01
-6.2	6.0200-14	2.3600-11	4.9900-01	5.5600-05	1.1000-03	4.9900-01
-6.0	2.3800-13	5.9000-11	4.9900-01	3.5200-05	1.7400-03	4.9900-01
-5.8	9.4100-13	1.4700-10	4.9900-01	2.2200-05	2.7500-03	4.9900-01
-5.6	3.7000-12	3.6700-10	4.9800-01	1.4100-05	4.3400-03	4.9800-01
-5.4	1.4500-11	9.1000-10	4.9700-01	8.9100-06	6.8200-03	4.9700-01
-5.2	5.5900-11	2.2400-09	4.9500-01	5.6500-06	1.0700-02	4.9500-01
-5.0	2.1300-10	5.4500-09	4.9200-01	3.6000-06	1.6600-02	4.9200-01
-4.8	7.9400-10	1.3100-08	4.8700-01	2.3000-06	2.5600-02	4.8700-01
-4.6	2.8700-09	3.0700-08	4.8100-01	1.4700-06	3.8800-02	4.8100-01
-4.4	9.9400-09	6.9800-08	4.7100-01	9.5000-07	5.8000-02	4.7100-01
-4.2	3.2600-08	1.5300-07	4.5800-01	6.1700-07	8.4400-02	4.5800-01
-4.0	1.0000-07	3.1900-07	4.4000-01	4.0400-07	1.2000-01	4.4000-01
-3.8	2.8700-07	6.3400-07	4.1800-01	2.6700-07	1.6400-01	4.1800-01
-3.6	7.6400-07	1.1900-06	3.9200-01	1.7800-07	2.1700-01	3.9200-01
-3.4	1.8900-06	2.1200-06	3.6100-01	1.1900-07	2.7800-01	3.6100-01
-3.2	4.3600-06	3.6000-06	3.2800-01	7.9400-08	3.4400-01	3.2800-01
-3.0	9.4800-06	5.8300-06	2.9400-01	5.3200-08	4.1300-01	2.9400-01
-2.8	1.9500-05	9.0700-06	2.5900-01	3.5600-08	4.8200-01	2.5900-01
-2.6	3.8500-05	1.3600-05	2.2500-01	2.3800-08	5.4900-01	2.2500-01
-2.4	7.2900-05	1.9900-05	1.9300-01	1.5900-08	6.1300-01	1.9400-01
-2.2	1.3400-04	2.8300-05	1.6400-01	1.0500-08	6.7100-01	1.6400-01
-2.0	2.3900-04	3.9400-05	1.3800-01	6.9800-09	7.2300-01	1.3800-01
-1.8	4.1600-04	5.3900-05	1.1500-01	4.6100-09	7.6900-01	1.1500-01
-1.6	7.1300-04	7.2700-05	9.5500-02	3.0400-09	8.0800-01	9.5500-02
-1.4	1.2000-03	9.6900-05	7.8600-02	2.0000-09	8.4100-01	7.8700-02
-1.2	2.0000-03	1.2800-04	6.4400-02	1.3200-09	8.6900-01	6.4500-02
-1.0	3.2900-03	1.6700-04	5.2500-02	8.6900-10	8.9100-01	5.2700-02
-.8	5.3500-03	2.1700-04	4.2700-02	5.7400-10	9.0900-01	4.2900-02
-.6	8.6200-03	2.8000-04	3.4700-02	3.8000-10	9.2100-01	3.4900-02
-.4	1.3700-02	3.5800-04	2.8100-02	2.5300-10	9.2900-01	2.8400-02
-.2	2.1600-02	4.5400-04	2.2700-02	1.6900-10	9.3200-01	2.3100-02
.0	3.3500-02	5.7000-04	1.8300-02	1.1300-10	9.2900-01	1.8900-02
.2	5.0900-02	7.0500-04	1.4700-02	7.6400-11	9.1800-01	1.5400-02
.4	7.5500-02	8.5600-04	1.1800-02	5.1900-11	8.9900-01	1.2700-02
.6	1.0900-01	1.0200-03	9.4300-03	3.5400-11	8.7000-01	1.0500-02
.8	1.5200-01	1.1800-03	7.4900-03	2.4300-11	8.3100-01	8.6700-03
1.0	2.0400-01	1.3300-03	5.9100-03	1.6800-11	7.8100-01	7.2400-03
1.2	2.6500-01	1.4700-03	4.6200-03	1.1600-11	7.2300-01	6.0900-03
1.4	3.3400-01	1.5800-03	3.5900-03	8.0400-12	6.5600-01	5.1700-03
1.6	4.0700-01	1.6700-03	2.7600-03	5.6100-12	5.8500-01	4.4300-03
1.8	4.8200-01	1.7600-03	2.1200-03	3.9600-12	5.1000-01	3.8700-03
2.0	5.5800-01	1.8600-03	1.6200-03	2.8600-12	4.3500-01	3.4800-03
2.2	6.3200-01	2.0200-03	1.2600-03	2.1700-12	3.6100-01	3.2700-03

T= 12400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0003+00	4.2732+01	4.6732+01	1.2778+02	-4.7409+00	4.0007+00
-6.8	3.9993+00	4.2710+01	4.6710+01	1.2592+02	-4.5410+00	3.9998+00
-6.6	3.9982+00	4.2691+01	4.6689+01	1.2405+02	-4.3411+00	3.9988+00
-6.4	3.9968+00	4.2669+01	4.6666+01	1.2219+02	-4.1413+00	3.9976+00
-6.2	3.9949+00	4.2641+01	4.6636+01	1.2032+02	-3.9415+00	3.9958+00
-6.0	3.9920+00	4.2601+01	4.6593+01	1.1844+02	-3.7418+00	3.9932+00
-5.8	3.9876+00	4.2539+01	4.6527+01	1.1654+02	-3.5423+00	3.9891+00
-5.6	3.9809+00	4.2444+01	4.6425+01	1.1462+02	-3.3430+00	3.9828+00
-5.4	3.9706+00	4.2298+01	4.6269+01	1.1264+02	-3.1441+00	3.9730+00
-5.2	3.9549+00	4.2074+01	4.6028+01	1.1059+02	-2.9458+00	3.9578+00
-5.0	3.9311+00	4.1732+01	4.5663+01	1.0843+02	-2.7485+00	3.9347+00
-4.8	3.8959+00	4.1224+01	4.5120+01	1.0612+02	-2.5524+00	3.9003+00
-4.6	3.8450+00	4.0489+01	4.4334+01	1.0360+02	-2.3581+00	3.8505+00
-4.4	3.7745+00	3.9464+01	4.3238+01	1.0082+02	-2.1661+00	3.7809+00
-4.2	3.6811+00	3.8104+01	4.1785+01	9.7744+01	-1.9770+00	3.6886+00
-4.0	3.5645+00	3.6402+01	3.9966+01	9.4372+01	-1.7910+00	3.5729+00
-3.8	3.4276+00	3.4401+01	3.7829+01	9.0761+01	-1.6080+00	3.4369+00
-3.6	3.2770+00	3.2195+01	3.5472+01	8.7010+01	-1.4275+00	3.2869+00
-3.4	3.1206+00	2.9901+01	3.3021+01	8.3243+01	-1.2487+00	3.1309+00
-3.2	2.9664+00	2.7638+01	3.0604+01	7.9578+01	-1.0707+00	2.9768+00
-3.0	2.8211+00	2.5501+01	2.8322+01	7.6109+01	-8.9256-01	2.8314+00
-2.8	2.6888+00	2.3554+01	2.6242+01	7.2894+01	-7.1342-01	2.6988+00
-2.6	2.5718+00	2.1830+01	2.4401+01	6.9959+01	-5.3274-01	2.5813+00
-2.4	2.4706+00	2.0337+01	2.2807+01	6.7306+01	-3.5018-01	2.4796+00
-2.2	2.3846+00	1.9066+01	2.1451+01	6.4918+01	-1.6557-01	2.3929+00
-2.0	2.3124+00	1.8000+01	2.0312+01	6.2771+01	2.1080-02	2.3201+00
-1.8	2.2524+00	1.7113+01	1.9366+01	6.0834+01	2.0966-01	2.2595+00
-1.6	2.2028+00	1.6381+01	1.8583+01	5.9075+01	3.9999-01	2.2093+00
-1.4	2.1618+00	1.5777+01	1.7938+01	5.7467+01	5.9183-01	2.1677+00
-1.2	2.1277+00	1.5277+01	1.7405+01	5.5980+01	7.8493-01	2.1330+00
-1.0	2.0988+00	1.4860+01	1.6959+01	5.4590+01	9.7899-01	2.1035+00
-.8	2.0735+00	1.4503+01	1.6577+01	5.3272+01	1.1737+00	2.0776+00
-.6	2.0500+00	1.4184+01	1.6234+01	5.2004+01	1.3688+00	2.0535+00
-.4	2.0264+00	1.3880+01	1.5907+01	5.0761+01	1.5638+00	2.0291+00
-.2	2.0005+00	1.3566+01	1.5566+01	4.9520+01	1.7582+00	2.0022+00
.0	1.9697+00	1.3214+01	1.5184+01	4.8253+01	1.9514+00	1.9701+00
.2	1.9316+00	1.2796+01	1.4728+01	4.6937+01	2.1429+00	1.9302+00
.4	1.8843+00	1.2291+01	1.4175+01	4.5552+01	2.3322+00	1.8803+00
.6	1.8271+00	1.1685+01	1.3512+01	4.4092+01	2.5188+00	1.8194+00
.8	1.7611+00	1.0986+01	1.2748+01	4.2566+01	2.7028+00	1.7482+00
1.0	1.6899+00	1.0219+01	1.1909+01	4.1004+01	2.8849+00	1.6693+00
1.2	1.6183+00	9.4175+00	1.1036+01	3.9441+01	3.0661+00	1.5865+00
1.4	1.5521+00	8.6213+00	1.0173+01	3.7915+01	3.2479+00	1.5038+00
1.6	1.4973+00	7.8621+00	9.3593+00	3.6454+01	3.4323+00	1.4247+00
1.8	1.4601+00	7.1624+00	8.6225+00	3.5075+01	3.6214+00	1.3514+00
2.0	1.4482+00	6.5347+00	7.9829+00	3.3778+01	3.8179+00	1.2852+00
2.2	1.4716+00	5.9841+00	7.4556+00	3.2557+01	4.0248+00	1.2264+00

T= 12500

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.7700-16	4.9700-13	4.9900-01	4.4100-04	1.5600-04	5.0000-01
-6.8	7.0300-16	1.2500-12	4.9900-01	2.7900-04	2.4700-04	5.0000-01
-6.6	2.8000-15	3.1300-12	5.0000-01	1.7600-04	3.9100-04	5.0000-01
-6.4	1.1100-14	7.8600-12	5.0000-01	1.1100-04	6.1900-04	5.0000-01
-6.2	4.4100-14	1.9700-11	4.9900-01	7.0200-05	9.8000-04	5.0000-01
-6.0	1.7500-13	4.9400-11	4.9900-01	4.4400-05	1.5500-03	4.9900-01
-5.8	6.9000-13	1.2300-10	4.9900-01	2.8000-05	2.4500-03	4.9900-01
-5.6	2.7200-12	3.0800-10	4.9800-01	1.7700-05	3.8600-03	4.9800-01
-5.4	1.0600-11	7.6300-10	4.9700-01	1.1200-05	6.0800-03	4.9700-01
-5.2	4.1300-11	1.8800-09	4.9500-01	7.1300-06	9.5200-03	4.9500-01
-5.0	1.5800-10	4.6000-09	4.9300-01	4.5300-06	1.4800-02	4.9300-01
-4.8	5.9200-10	1.1100-08	4.8900-01	2.8900-06	2.2900-02	4.8900-01
-4.6	2.1600-09	2.6200-08	4.8300-01	1.8500-06	3.5000-02	4.8300-01
-4.4	7.5700-09	6.0000-08	4.7400-01	1.1900-06	5.2400-02	4.7400-01
-4.2	2.5200-08	1.3300-07	4.6200-01	7.7300-07	7.6900-02	4.6200-01
-4.0	7.8900-08	2.8100-07	4.4500-01	5.0600-07	1.1000-01	4.4500-01
-3.8	2.3000-07	5.6500-07	4.2400-01	3.3300-07	1.5200-01	4.2400-01
-3.6	6.2400-07	1.0800-06	3.9900-01	2.2100-07	2.0200-01	3.9900-01
-3.4	1.5700-06	1.9500-06	3.6900-01	1.4800-07	2.6100-01	3.6900-01
-3.2	3.6900-06	3.3400-06	3.3700-01	9.8900-08	3.2600-01	3.3700-01
-3.0	8.1400-06	5.4700-06	3.0300-01	6.6300-08	3.9500-01	3.0300-01
-2.8	1.7000-05	8.6000-06	2.6800-01	4.4500-08	4.6400-01	2.6800-01
-2.6	3.3800-05	1.3000-05	2.3400-01	2.9700-08	5.3200-01	2.3400-01
-2.4	6.4700-05	1.9200-05	2.0200-01	1.9800-08	5.9700-01	2.0200-01
-2.2	1.2000-04	2.7400-05	1.7200-01	1.3200-08	6.5600-01	1.7200-01
-2.0	2.1500-04	3.8400-05	1.4500-01	8.7500-09	7.1000-01	1.4500-01
-1.8	3.7700-04	5.2800-05	1.2100-01	5.7900-09	7.5700-01	1.2100-01
-1.6	6.4800-04	7.1500-05	1.0000-01	3.8200-09	7.9800-01	1.0000-01
-1.4	1.1000-03	9.5500-05	8.2800-02	2.5200-09	8.3300-01	8.2900-02
-1.2	1.8300-03	1.2600-04	6.7900-02	1.6600-09	8.6200-01	6.8000-02
-1.0	3.0200-03	1.6600-04	5.5500-02	1.1000-09	8.8600-01	5.5700-02
-.8	4.9200-03	2.1600-04	4.5200-02	7.2600-10	9.0400-01	4.5400-02
-.6	7.9400-03	2.7900-04	3.6700-02	4.8200-10	9.1800-01	3.7000-02
-.4	1.2700-02	3.5700-04	2.9800-02	3.2000-10	9.2700-01	3.0100-02
-.2	2.0000-02	4.5400-04	2.4100-02	2.1400-10	9.3100-01	2.4500-02
.0	3.1100-02	5.7100-04	1.9400-02	1.4400-10	9.2900-01	2.0000-02
.2	4.7500-02	7.0900-04	1.5700-02	9.7300-11	9.2000-01	1.6400-02
.4	7.0700-02	8.6400-04	1.2600-02	6.6200-11	9.0200-01	1.3400-02
.6	1.0200-01	1.0300-03	1.0100-02	4.5300-11	8.7500-01	1.1100-02
.8	1.4400-01	1.2000-03	8.0100-03	3.1200-11	8.3800-01	9.2100-03
1.0	1.9500-01	1.3700-03	6.3300-03	2.1600-11	7.9000-01	7.7000-03
1.2	2.5500-01	1.5100-03	4.9700-03	1.5000-11	7.3200-01	6.4800-03
1.4	3.2200-01	1.6400-03	3.8700-03	1.0500-11	6.6700-01	5.5100-03
1.6	3.9500-01	1.7500-03	2.9900-03	7.3400-12	5.9600-01	4.7400-03
1.8	4.7000-01	1.8500-03	2.3000-03	5.2300-12	5.2100-01	4.1500-03
2.0	5.4700-01	1.9600-03	1.7700-03	3.8200-12	4.4600-01	3.7300-03
2.2	6.2200-01	2.1500-03	1.3800-03	2.9500-12	3.7100-01	3.5300-03

T= 12500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0008+00	4.2455+01	4.6456+01	1.2784+02	-4.7373+00	4.0012+00
-6.8	3.9997+00	4.2431+01	4.6430+01	1.2598+02	-4.5375+00	4.0002+00
-6.6	3.9986+00	4.2410+01	4.6408+01	1.2412+02	-4.3376+00	3.9992+00
-6.4	3.9972+00	4.2389+01	4.6386+01	1.2225+02	-4.1377+00	3.9980+00
-6.2	3.9954+00	4.2362+01	4.6358+01	1.2039+02	-3.9379+00	3.9964+00
-6.0	3.9928+00	4.2325+01	4.6318+01	1.1851+02	-3.7382+00	3.9940+00
-5.8	3.9889+00	4.2270+01	4.6259+01	1.1662+02	-3.5386+00	3.9904+00
-5.6	3.9828+00	4.2186+01	4.6169+01	1.1470+02	-3.3393+00	3.9847+00
-5.4	3.9736+00	4.2056+01	4.6030+01	1.1273+02	-3.1403+00	3.9759+00
-5.2	3.9594+00	4.1856+01	4.5816+01	1.1071+02	-2.9419+00	3.9623+00
-5.0	3.9380+00	4.1551+01	4.5489+01	1.0858+02	-2.7442+00	3.9416+00
-4.8	3.9060+00	4.1095+01	4.5001+01	1.0632+02	-2.5478+00	3.9104+00
-4.6	3.8595+00	4.0429+01	4.4288+01	1.0387+02	-2.3530+00	3.8650+00
-4.4	3.7944+00	3.9490+01	4.3285+01	1.0116+02	-2.1604+00	3.8008+00
-4.2	3.7070+00	3.8229+01	4.1936+01	9.8175+01	-1.9705+00	3.7145+00
-4.0	3.5962+00	3.6625+01	4.0221+01	9.4889+01	-1.7837+00	3.6048+00
-3.8	3.4640+00	3.4709+01	3.8173+01	9.1347+01	-1.5999+00	3.4736+00
-3.6	3.3162+00	3.2562+01	3.5878+01	8.7638+01	-1.4188+00	3.3265+00
-3.4	3.1605+00	3.0298+01	3.3458+01	8.3882+01	-1.2397+00	3.1712+00
-3.2	3.0052+00	2.8035+01	3.1040+01	8.0199+01	-1.0616+00	3.0161+00
-3.0	2.8571+00	2.5875+01	2.8733+01	7.6690+01	-8.8356-01	2.8680+00
-2.8	2.7212+00	2.3891+01	2.6612+01	7.3422+01	-7.0472-01	2.7318+00
-2.6	2.6003+00	2.2122+01	2.4722+01	7.0428+01	-5.2447-01	2.6104+00
-2.4	2.4951+00	2.0582+01	2.3077+01	6.7716+01	-3.4241-01	2.5046+00
-2.2	2.4053+00	1.9267+01	2.1672+01	6.5273+01	-1.5833-01	2.4142+00
-2.0	2.3297+00	1.8158+01	2.0488+01	6.3075+01	2.7806-02	2.3380+00
-1.8	2.2667+00	1.7235+01	1.9502+01	6.1093+01	2.1591-01	2.2744+00
-1.6	2.2146+00	1.6471+01	1.8685+01	5.9297+01	4.0581-01	2.2216+00
-1.4	2.1715+00	1.5840+01	1.8012+01	5.7657+01	5.9728-01	2.1779+00
-1.2	2.1358+00	1.5320+01	1.7455+01	5.6145+01	7.9006-01	2.1415+00
-1.0	2.1056+00	1.4885+01	1.6991+01	5.4735+01	9.8389-01	2.1108+00
-.8	2.0794+00	1.4516+01	1.6595+01	5.3402+01	1.1785+00	2.0839+00
-.6	2.0554+00	1.4189+01	1.6245+01	5.2123+01	1.3734+00	2.0592+00
-.4	2.0317+00	1.3883+01	1.5914+01	5.0875+01	1.5684+00	2.0347+00
-.2	2.0062+00	1.3571+01	1.5577+01	4.9633+01	1.7629+00	2.0081+00
.0	1.9763+00	1.3227+01	1.5203+01	4.8372+01	1.9564+00	1.9769+00
.2	1.9395+00	1.2823+01	1.4762+01	4.7066+01	2.1482+00	1.9383+00
.4	1.8939+00	1.2335+01	1.4228+01	4.5695+01	2.3379+00	1.8901+00
.6	1.8383+00	1.1749+01	1.3587+01	4.4249+01	2.5249+00	1.8308+00
.8	1.7739+00	1.1068+01	1.2842+01	4.2737+01	2.7094+00	1.7610+00
1.0	1.7037+00	1.0314+01	1.2017+01	4.1181+01	2.8919+00	1.6830+00
1.2	1.6324+00	9.5198+00	1.1152+01	3.9620+01	3.0733+00	1.6004+00
1.4	1.5658+00	8.7246+00	1.0290+01	3.8088+01	3.2553+00	1.5173+00
1.6	1.5101+00	7.9613+00	9.4714+00	3.6617+01	3.4395+00	1.4371+00
1.8	1.4718+00	7.2538+00	8.7257+00	3.5224+01	3.6284+00	1.3625+00
2.0	1.4586+00	6.6163+00	8.0749+00	3.3913+01	3.8245+00	1.2947+00
2.2	1.4806+00	6.0551+00	7.5357+00	3.2676+01	4.0310+00	1.2342+00

T= 12600

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.3000-16	4.1600-13	4.9900-01	5.5400-04	1.3900-04	5.0000-01
-6.8	5.1700-16	1.0500-12	4.9900-01	3.5000-04	2.2000-04	5.0000-01
-6.6	2.0600-15	2.6300-12	4.9900-01	2.2100-04	3.4800-04	5.0000-01
-6.4	8.1800-15	6.5900-12	5.0000-01	1.4000-04	5.5100-04	5.0000-01
-6.2	3.2500-14	1.6500-11	4.9900-01	8.8200-05	8.7300-04	5.0000-01
-6.0	1.2900-13	4.1400-11	4.9900-01	5.5700-05	1.3800-03	4.9900-01
-5.8	5.0900-13	1.0300-10	4.9900-01	3.5200-05	2.1800-03	4.9900-01
-5.6	2.0100-12	2.5800-10	4.9800-01	2.2300-05	3.4400-03	4.9800-01
-5.4	7.8700-12	6.4200-10	4.9700-01	1.4100-05	5.4200-03	4.9700-01
-5.2	3.0600-11	1.5900-09	4.9600-01	8.9500-06	8.5100-03	4.9600-01
-5.0	1.1800-10	3.8800-09	4.9300-01	5.6800-06	1.3300-02	4.9300-01
-4.8	4.4300-10	9.3900-09	4.9000-01	3.6200-06	2.0600-02	4.9000-01
-4.6	1.6300-09	2.2300-08	4.8400-01	2.3200-06	3.1500-02	4.8400-01
-4.4	5.7700-09	5.1600-08	4.7600-01	1.4900-06	4.7400-02	4.7600-01
-4.2	1.9500-08	1.1500-07	4.6500-01	9.6600-07	6.9900-02	4.6500-01
-4.0	6.2000-08	2.4700-07	4.5000-01	6.3100-07	1.0100-01	4.5000-01
-3.8	1.8400-07	5.0300-07	4.3000-01	4.1500-07	1.4000-01	4.3000-01
-3.6	5.0900-07	9.7200-07	4.0600-01	2.7500-07	1.8900-01	4.0600-01
-3.4	1.3000-06	1.7800-06	3.7700-01	1.8300-07	2.4600-01	3.7700-01
-3.2	3.1100-06	3.0900-06	3.4500-01	1.2300-07	3.0900-01	3.4500-01
-3.0	6.9700-06	5.1300-06	3.1100-01	8.2400-08	3.7700-01	3.1100-01
-2.8	1.4800-05	8.1400-06	2.7700-01	5.5300-08	4.4600-01	2.7700-01
-2.6	2.9700-05	1.2400-05	2.4200-01	3.7000-08	5.1500-01	2.4200-01
-2.4	5.7400-05	1.8400-05	2.1000-01	2.4700-08	5.8100-01	2.1000-01
-2.2	1.0700-04	2.6500-05	1.7900-01	1.6500-08	6.4200-01	1.7900-01
-2.0	1.9300-04	3.7400-05	1.5100-01	1.0900-08	6.9700-01	1.5100-01
-1.8	3.4100-04	5.1600-05	1.2700-01	7.2500-09	7.4600-01	1.2700-01
-1.6	5.8900-04	7.0100-05	1.0500-01	4.7900-09	7.8800-01	1.0600-01
-1.4	1.0000-03	9.4100-05	8.7100-02	3.1700-09	8.2500-01	8.7200-02
-1.2	1.6800-03	1.2500-04	7.1600-02	2.0900-09	8.5500-01	7.1700-02
-1.0	2.7700-03	1.6400-04	5.8600-02	1.3800-09	8.8000-01	5.8700-02
-.8	4.5300-03	2.1400-04	4.7800-02	9.1500-10	9.0000-01	4.8000-02
-.6	7.3300-03	2.7700-04	3.8800-02	6.0800-10	9.1400-01	3.9100-02
-.4	1.1700-02	3.5600-04	3.1500-02	4.0500-10	9.2500-01	3.1900-02
-.2	1.8600-02	4.5300-04	2.5500-02	2.7100-10	9.2900-01	2.6000-02
.0	2.8900-02	5.7200-04	2.0600-02	1.8200-10	9.2900-01	2.1200-02
.2	4.4300-02	7.1200-04	1.6600-02	1.2300-10	9.2100-01	1.7300-02
.4	6.6300-02	8.7200-04	1.3400-02	8.4100-11	9.0500-01	1.4300-02
.6	9.6600-02	1.0500-03	1.0700-02	5.7700-11	8.8000-01	1.1800-02
.8	1.3600-01	1.2300-03	8.5500-03	3.9900-11	8.4400-01	9.7800-03
1.0	1.8600-01	1.4000-03	6.7700-03	2.7700-11	7.9800-01	8.1800-03
1.2	2.4400-01	1.5600-03	5.3300-03	1.9300-11	7.4200-01	6.8900-03
1.4	3.1100-01	1.7000-03	4.1600-03	1.3500-11	6.7700-01	5.8600-03
1.6	3.8300-01	1.8200-03	3.2300-03	9.5800-12	6.0700-01	5.0500-03
1.8	4.5900-01	1.9400-03	2.4900-03	6.8800-12	5.3300-01	4.4300-03
2.0	5.3500-01	2.0800-03	1.9300-03	5.0800-12	4.5700-01	4.0000-03
2.2	6.1200-01	2.2900-03	1.5100-03	3.9800-12	3.8100-01	3.7900-03

T= 12600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0013+00	4.2185+01	4.6186+01	1.2791+02	-4.7338+00	4.0017+00
-6.8	4.0001+00	4.2157+01	4.6157+01	1.2604+02	-4.5340+00	4.0005+00
-6.6	3.9989+00	4.2134+01	4.6133+01	1.2418+02	-4.3341+00	3.9995+00
-6.4	3.9976+00	4.2112+01	4.6110+01	1.2231+02	-4.1342+00	3.9984+00
-6.2	3.9960+00	4.2087+01	4.6083+01	1.2045+02	-3.9344+00	3.9969+00
-6.0	3.9936+00	4.2054+01	4.6047+01	1.1857+02	-3.7347+00	3.9947+00
-5.8	3.9900+00	4.2004+01	4.5994+01	1.1669+02	-3.5351+00	3.9915+00
-5.6	3.9845+00	4.1929+01	4.5913+01	1.1477+02	-3.3357+00	3.9864+00
-5.4	3.9762+00	4.1813+01	4.5789+01	1.1283+02	-3.1366+00	3.9785+00
-5.2	3.9634+00	4.1635+01	4.5598+01	1.1082+02	-2.9380+00	3.9663+00
-5.0	3.9440+00	4.1362+01	4.5306+01	1.0873+02	-2.7401+00	3.9476+00
-4.8	3.9150+00	4.0952+01	4.4867+01	1.0651+02	-2.5433+00	3.9195+00
-4.6	3.8726+00	4.0349+01	4.4222+01	1.0411+02	-2.3480+00	3.8780+00
-4.4	3.8125+00	3.9491+01	4.3304+01	1.0148+02	-2.1548+00	3.8190+00
-4.2	3.7309+00	3.8324+01	4.2055+01	9.8575+01	-1.9642+00	3.7385+00
-4.0	3.6259+00	3.6818+01	4.0444+01	9.5374+01	-1.7766+00	3.6347+00
-3.8	3.4988+00	3.4990+01	3.8488+01	9.1905+01	-1.5921+00	3.5086+00
-3.6	3.3543+00	3.2908+01	3.6262+01	8.8244+01	-1.4104+00	3.3649+00
-3.4	3.1998+00	3.0679+01	3.3879+01	8.4506+01	-1.2309+00	3.2110+00
-3.2	3.0437+00	2.8423+01	3.1467+01	8.0813+01	-1.0526+00	3.0551+00
-3.0	2.8934+00	2.6247+01	2.9141+01	7.7270+01	-8.7463-01	2.9048+00
-2.8	2.7541+00	2.4230+01	2.6984+01	7.3953+01	-6.9605-01	2.7653+00
-2.6	2.6293+00	2.2419+01	2.5048+01	7.0902+01	-5.1619-01	2.6400+00
-2.4	2.5201+00	2.0833+01	2.3353+01	6.8132+01	-3.3461-01	2.5303+00
-2.2	2.4265+00	1.9473+01	2.1899+01	6.5633+01	-1.5104-01	2.4361+00
-2.0	2.3475+00	1.8323+01	2.0670+01	6.3384+01	3.4581-02	2.3564+00
-1.8	2.2816+00	1.7362+01	1.9644+01	6.1358+01	2.2220-01	2.2898+00
-1.6	2.2269+00	1.6566+01	1.8792+01	5.9524+01	4.1166-01	2.2344+00
-1.4	2.1816+00	1.5908+01	1.8090+01	5.7852+01	6.0275-01	2.1885+00
-1.2	2.1441+00	1.5365+01	1.7509+01	5.6313+01	7.9522-01	2.1503+00
-1.0	2.1126+00	1.4914+01	1.7026+01	5.4882+01	9.8880-01	2.1182+00
-.8	2.0855+00	1.4531+01	1.6617+01	5.3533+01	1.1832+00	2.0904+00
-.6	2.0609+00	1.4196+01	1.6257+01	5.2243+01	1.3780+00	2.0650+00
-.4	2.0370+00	1.3886+01	1.5923+01	5.0989+01	1.5730+00	2.0403+00
-.2	2.0117+00	1.3575+01	1.5587+01	4.9746+01	1.7675+00	2.0140+00
.0	1.9826+00	1.3238+01	1.5220+01	4.8489+01	1.9612+00	1.9835+00
.2	1.9471+00	1.2846+01	1.4793+01	4.7192+01	2.1533+00	1.9461+00
.4	1.9030+00	1.2374+01	1.4277+01	4.5833+01	2.3434+00	1.8994+00
.6	1.8492+00	1.1807+01	1.3656+01	4.4402+01	2.5309+00	1.8418+00
.8	1.7863+00	1.1145+01	1.2931+01	4.2902+01	2.7159+00	1.7735+00
1.0	1.7171+00	1.0404+01	1.2121+01	4.1355+01	2.8988+00	1.6964+00
1.2	1.6462+00	9.6187+00	1.1265+01	3.9795+01	3.0805+00	1.6141+00
1.4	1.5794+00	8.8256+00	1.0405+01	3.8259+01	3.2625+00	1.5306+00
1.6	1.5230+00	8.0590+00	9.5819+00	3.6779+01	3.4467+00	1.4495+00
1.8	1.4836+00	7.3445+00	8.8281+00	3.5373+01	3.6353+00	1.3735+00
2.0	1.4691+00	6.6977+00	8.1668+00	3.4047+01	3.8310+00	1.3042+00
2.2	1.4897+00	6.1261+00	7.6159+00	3.2796+01	4.0371+00	1.2422+00

T= 12700

LOG D	N2	N2+	N+	N++	N	E
-7.0	9.6200-17	3.4900-13	4.9900-01	6.9400-04	1.2400-04	5.0000-01
-6.8	3.8300-16	8.7800-13	4.9900-01	4.3800-04	1.9600-04	5.0000-01
-6.6	1.5200-15	2.2000-12	4.9900-01	2.7700-04	3.1100-04	5.0000-01
-6.4	6.0500-15	5.5300-12	4.9900-01	1.7500-04	4.9200-04	5.0000-01
-6.2	2.4000-14	1.3900-11	4.9900-01	1.1000-04	7.7900-04	5.0000-01
-6.0	9.5300-14	3.4800-11	4.9900-01	6.9800-05	1.2300-03	4.9900-01
-5.8	3.7700-13	8.7000-11	4.9900-01	4.4100-05	1.9500-03	4.9900-01
-5.6	1.4900-12	2.1700-10	4.9800-01	2.7900-05	3.0800-03	4.9800-01
-5.4	5.8400-12	5.4000-10	4.9800-01	1.7700-05	4.8500-03	4.9800-01
-5.2	2.2800-11	1.3400-09	4.9600-01	1.1200-05	7.6100-03	4.9600-01
-5.0	8.7700-11	3.2800-09	4.9400-01	7.1100-06	1.1900-02	4.9400-01
-4.8	3.3300-10	7.9700-09	4.9100-01	4.5300-06	1.8500-02	4.9100-01
-4.6	1.2300-09	1.9000-08	4.8600-01	2.8900-06	2.8300-02	4.8600-01
-4.4	4.4100-09	4.4300-08	4.7900-01	1.8600-06	4.2900-02	4.7900-01
-4.2	1.5100-08	9.9900-08	4.6800-01	1.2000-06	6.3600-02	4.6800-01
-4.0	4.8700-08	2.1600-07	4.5400-01	7.8400-07	9.2100-02	4.5400-01
-3.8	1.4700-07	4.4700-07	4.3500-01	5.1500-07	1.2900-01	4.3500-01
-3.6	4.1400-07	8.7500-07	4.1200-01	3.4100-07	1.7600-01	4.1200-01
-3.4	1.0800-06	1.6200-06	3.8500-01	2.2700-07	2.3100-01	3.8500-01
-3.2	2.6300-06	2.8600-06	3.5400-01	1.5200-07	2.9300-01	3.5400-01
-3.0	5.9700-06	4.7900-06	3.2000-01	1.0200-07	3.6000-01	3.2000-01
-2.8	1.2800-05	7.6800-06	2.8600-01	6.8500-08	4.2900-01	2.8600-01
-2.6	2.6100-05	1.1900-05	2.5100-01	4.5900-08	4.9800-01	2.5100-01
-2.4	5.0900-05	1.7700-05	2.1800-01	3.0700-08	5.6400-01	2.1800-01
-2.2	9.5500-05	2.5600-05	1.8700-01	2.0500-08	6.2700-01	1.8700-01
-2.0	1.7400-04	3.6300-05	1.5800-01	1.3600-08	6.8300-01	1.5800-01
-1.8	3.0900-04	5.0400-05	1.3300-01	9.0400-09	7.3400-01	1.3300-01
-1.6	5.3600-04	6.8700-05	1.1100-01	5.9900-09	7.7800-01	1.1100-01
-1.4	9.1400-04	9.2500-05	9.1600-02	3.9600-09	8.1600-01	9.1700-02
-1.2	1.5400-03	1.2300-04	7.5400-02	2.6200-09	8.4700-01	7.5500-02
-1.0	2.5500-03	1.6200-04	6.1800-02	1.7300-09	8.7400-01	6.1900-02
-.8	4.1700-03	2.1200-04	5.0400-02	1.1500-09	8.9500-01	5.0600-02
-.6	6.7700-03	2.7500-04	4.1000-02	7.6400-10	9.1100-01	4.1300-02
-.4	1.0900-02	3.5400-04	3.3300-02	5.1000-10	9.2200-01	3.3700-02
-.2	1.7200-02	4.5200-04	2.7000-02	3.4200-10	9.2800-01	2.7500-02
.0	2.6900-02	5.7200-04	2.1900-02	2.3000-10	9.2800-01	2.2400-02
.2	4.1400-02	7.1400-04	1.7700-02	1.5600-10	9.2200-01	1.8400-02
.4	6.2200-02	8.7800-04	1.4200-02	1.0700-10	9.0800-01	1.5100-02
.6	9.1100-02	1.0600-03	1.1400-02	7.3300-11	8.8400-01	1.2500-02
.8	1.2900-01	1.2500-03	9.1200-03	5.0800-11	8.5000-01	1.0400-02
1.0	1.7700-01	1.4300-03	7.2400-03	3.5400-11	8.0600-01	8.6700-03
1.2	2.3500-01	1.6100-03	5.7100-03	2.4800-11	7.5100-01	7.3200-03
1.4	3.0000-01	1.7600-03	4.4700-03	1.7500-11	6.8800-01	6.2400-03
1.6	3.7200-01	1.9000-03	3.4800-03	1.2500-11	6.1800-01	5.3800-03
1.8	4.4700-01	2.0300-03	2.7000-03	9.0300-12	5.4300-01	4.7300-03
2.0	5.2400-01	2.1900-03	2.1000-03	6.7400-12	4.6700-01	4.2900-03
2.2	6.0100-01	2.4300-03	1.6500-03	5.3700-12	3.9100-01	4.0800-03



T= 12700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0019+00	4.1922+01	4.5924+01	1.2798+02	-4.7303+00	4.0023+00
-6.8	4.0005+00	4.1889+01	4.5889+01	1.2610+02	-4.5305+00	4.0010+00
-6.6	3.9993+00	4.1863+01	4.5863+01	1.2424+02	-4.3306+00	3.9999+00
-6.4	3.9980+00	4.1841+01	4.5839+01	1.2237+02	-4.1308+00	3.9988+00
-6.2	3.9964+00	4.1817+01	4.5813+01	1.2051+02	-3.9309+00	3.9974+00
-6.0	3.9942+00	4.1785+01	4.5779+01	1.1864+02	-3.7312+00	3.9954+00
-5.8	3.9910+00	4.1740+01	4.5731+01	1.1675+02	-3.5315+00	3.9924+00
-5.6	3.9860+00	4.1673+01	4.5659+01	1.1485+02	-3.3321+00	3.9879+00
-5.4	3.9785+00	4.1570+01	4.5548+01	1.1291+02	-3.1329+00	3.9808+00
-5.2	3.9670+00	4.1410+01	4.5377+01	1.1092+02	-2.9341+00	3.9699+00
-5.0	3.9495+00	4.1166+01	4.5116+01	1.0886+02	-2.7361+00	3.9530+00
-4.8	3.9231+00	4.0798+01	4.4721+01	1.0667+02	-2.5390+00	3.9276+00
-4.6	3.8844+00	4.0252+01	4.4137+01	1.0433+02	-2.3433+00	3.8898+00
-4.4	3.8290+00	3.9470+01	4.3299+01	1.0177+02	-2.1495+00	3.8355+00
-4.2	3.7530+00	3.8392+01	4.2145+01	9.8946+01	-1.9582+00	3.7607+00
-4.0	3.6539+00	3.6981+01	4.0635+01	9.5829+01	-1.7698+00	3.6628+00
-3.8	3.5319+00	3.5242+01	3.8774+01	9.2435+01	-1.5846+00	3.5419+00
-3.6	3.3912+00	3.3230+01	3.6622+01	8.8829+01	-1.4022+00	3.4020+00
-3.4	3.2385+00	3.1045+01	3.4283+01	8.5116+01	-1.2223+00	3.2500+00
-3.2	3.0821+00	2.8803+01	3.1885+01	8.1418+01	-1.0438+00	3.0940+00
-3.0	2.9297+00	2.6616+01	2.9546+01	7.7847+01	-8.6577-01	2.9417+00
-2.8	2.7874+00	2.4570+01	2.7357+01	7.4485+01	-6.8740-01	2.7992+00
-2.6	2.6588+00	2.2719+01	2.5378+01	7.1381+01	-5.0791-01	2.6702+00
-2.4	2.5458+00	2.1089+01	2.3635+01	6.8554+01	-3.2678-01	2.5566+00
-2.2	2.4484+00	1.9684+01	2.2133+01	6.5999+01	-1.4371-01	2.4586+00
-2.0	2.3659+00	1.8493+01	2.0859+01	6.3700+01	4.1404-02	2.3754+00
-1.8	2.2969+00	1.7495+01	1.9791+01	6.1628+01	2.2854-01	2.3057+00
-1.6	2.2395+00	1.6666+01	1.8905+01	5.9755+01	4.1756-01	2.2476+00
-1.4	2.1921+00	1.5981+01	1.8173+01	5.8050+01	6.0826-01	2.1995+00
-1.2	2.1528+00	1.5415+01	1.7568+01	5.6484+01	8.0040-01	2.1595+00
-1.0	2.1199+00	1.4945+01	1.7065+01	5.5031+01	9.9371-01	2.1259+00
-.8	2.0917+00	1.4549+01	1.6641+01	5.3665+01	1.1879+00	2.0970+00
-.6	2.0664+00	1.4205+01	1.6271+01	5.2363+01	1.3826+00	2.0710+00
-.4	2.0423+00	1.3889+01	1.5932+01	5.1102+01	1.5775+00	2.0460+00
-.2	2.0172+00	1.3579+01	1.5596+01	4.9857+01	1.7721+00	2.0198+00
.0	1.9887+00	1.3247+01	1.5236+01	4.8603+01	1.9660+00	1.9899+00
.2	1.9543+00	1.2866+01	1.4821+01	4.7314+01	2.1584+00	1.9536+00
.4	1.9117+00	1.2410+01	1.4322+01	4.5967+01	2.3488+00	1.9084+00
.6	1.8596+00	1.1862+01	1.3721+01	4.4550+01	2.5368+00	1.8524+00
.8	1.7982+00	1.1217+01	1.3015+01	4.3062+01	2.7222+00	1.7856+00
1.0	1.7302+00	1.0491+01	1.2221+01	4.1524+01	2.9055+00	1.7095+00
1.2	1.6598+00	9.7144+00	1.1374+01	3.9967+01	3.0875+00	1.6276+00
1.4	1.5928+00	8.9241+00	1.0517+01	3.8428+01	3.2696+00	1.5438+00
1.6	1.5357+00	8.1551+00	9.6908+00	3.6939+01	3.4537+00	1.4618+00
1.8	1.4953+00	7.4342+00	8.9296+00	3.5521+01	3.6421+00	1.3846+00
2.0	1.4796+00	6.7786+00	8.2582+00	3.4181+01	3.8376+00	1.3138+00
2.2	1.4990+00	6.1972+00	7.6961+00	3.2915+01	4.0432+00	1.2503+00

T= 12800

LOG D	N2	N2+	N+	N++	N	E
-7.0	7.1500-17	2.9400-13	4.9900-01	8.6500-04	1.1100-04	5.0000-01
-6.8	2.8400-16	7.4000-13	4.9900-01	5.4700-04	1.7500-04	5.0000-01
-6.6	1.1300-15	1.8600-12	4.9900-01	3.4600-04	2.7800-04	5.0000-01
-6.4	4.5000-15	4.6600-12	4.9900-01	2.1800-04	4.4000-04	5.0000-01
-6.2	1.7900-14	1.1700-11	4.9900-01	1.3800-04	6.9700-04	5.0000-01
-6.0	7.0800-14	2.9300-11	4.9900-01	8.7100-05	1.1000-03	4.9900-01
-5.8	2.8100-13	7.3400-11	4.9900-01	5.5100-05	1.7400-03	4.9900-01
-5.6	1.1100-12	1.8100-10	4.9900-01	3.4800-05	2.7500-03	4.9900-01
-5.4	4.3600-12	4.5600-10	4.9800-01	2.2000-05	4.3400-03	4.9800-01
-5.2	1.7000-11	1.1300-09	4.9700-01	1.4000-05	6.8200-03	4.9700-01
-5.0	6.5800-11	2.7800-09	4.9500-01	8.8700-06	1.0700-02	4.9500-01
-4.8	2.5000-10	6.7800-09	4.9200-01	5.6400-06	1.6600-02	4.9200-01
-4.6	9.3300-10	1.6300-08	4.8700-01	3.6000-06	2.5600-02	4.8700-01
-4.4	3.3700-09	3.8100-08	4.8100-01	2.3100-06	3.8800-02	4.8100-01
-4.2	1.1700-08	8.6700-08	4.7100-01	1.4900-06	5.7900-02	4.7100-01
-4.0	3.8300-08	1.9000-07	4.5800-01	9.7100-07	8.4300-02	4.5800-01
-3.8	1.1800-07	3.9700-07	4.4000-01	6.3700-07	1.1900-01	4.4000-01
-3.6	3.3700-07	7.8700-07	4.1800-01	4.2100-07	1.6400-01	4.1800-01
-3.4	8.9500-07	1.4800-06	3.9200-01	2.8000-07	2.1600-01	3.9200-01
-3.2	2.2100-06	2.6400-06	3.6200-01	1.8800-07	2.7700-01	3.6200-01
-3.0	5.1100-06	4.4700-06	3.2900-01	1.2600-07	3.4300-01	3.2900-01
-2.8	1.1100-05	7.2500-06	2.9400-01	8.4500-08	4.1200-01	2.9400-01
-2.6	2.2900-05	1.1300-05	2.6000-01	5.6700-08	4.8100-01	2.6000-01
-2.4	4.5100-05	1.7000-05	2.2600-01	3.8000-08	5.4800-01	2.2600-01
-2.2	8.5400-05	2.4800-05	1.9400-01	2.5400-08	6.1100-01	1.9400-01
-2.0	1.5700-04	3.5300-05	1.6500-01	1.6900-08	6.7000-01	1.6500-01
-1.8	2.8000-04	4.9200-05	1.3900-01	1.1200-08	7.2200-01	1.3900-01
-1.6	4.8800-04	6.7400-05	1.1600-01	7.4500-09	7.6700-01	1.1600-01
-1.4	8.3500-04	9.1000-05	9.6200-02	4.9400-09	8.0700-01	9.6300-02
-1.2	1.4100-03	1.2100-04	7.9300-02	3.2700-09	8.4000-01	7.9400-02
-1.0	2.3400-03	1.6000-04	6.5000-02	2.1700-09	8.6700-01	6.5200-02
-.8	3.8500-03	2.1000-04	5.3200-02	1.4400-09	8.8900-01	5.3400-02
-.6	6.2600-03	2.7300-04	4.3300-02	9.5700-10	9.0700-01	4.3600-02
-.4	1.0100-02	3.5200-04	3.5200-02	6.3900-10	9.1900-01	3.5600-02
-.2	1.6000-02	4.5100-04	2.8600-02	4.2900-10	9.2600-01	2.9000-02
.0	2.5100-02	5.7200-04	2.3100-02	2.8900-10	9.2700-01	2.3700-02
.2	3.8700-02	7.1700-04	1.8700-02	1.9700-10	9.2200-01	1.9400-02
.4	5.8400-02	8.8500-04	1.5100-02	1.3500-10	9.1000-01	1.6000-02
.6	8.5900-02	1.0700-03	1.2100-02	9.2800-11	8.8800-01	1.3200-02
.8	1.2300-01	1.2700-03	9.7100-03	6.4400-11	8.5600-01	1.1000-02
1.0	1.6900-01	1.4700-03	7.7300-03	4.5100-11	8.1300-01	9.2000-03
1.2	2.2500-01	1.6500-03	6.1100-03	3.1700-11	7.5900-01	7.7700-03
1.4	2.8900-01	1.8200-03	4.8000-03	2.2500-11	6.9700-01	6.6300-03
1.6	3.6000-01	1.9800-03	3.7500-03	1.6200-11	6.2800-01	5.7300-03
1.8	4.3600-01	2.1300-03	2.9200-03	1.1800-11	5.5400-01	5.0500-03
2.0	5.1300-01	2.3100-03	2.2800-03	8.9200-12	4.7700-01	4.5900-03
2.2	5.9100-01	2.5800-03	1.8000-03	7.2100-12	4.0000-01	4.3800-03

T= 12800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0027+00	4.1667+01	4.5670+01	1.2805+02	-4.7268+00	4.0030+00
-6.8	4.0011+00	4.1627+01	4.5628+01	1.2617+02	-4.5270+00	4.0015+00
-6.6	3.9997+00	4.1598+01	4.5598+01	1.2430+02	-4.3272+00	4.0003+00
-6.4	3.9984+00	4.1574+01	4.5573+01	1.2243+02	-4.1273+00	3.9991+00
-6.2	3.9969+00	4.1550+01	4.5547+01	1.2057+02	-3.9275+00	3.9978+00
-6.0	3.9948+00	4.1520+01	4.5515+01	1.1870+02	-3.7277+00	3.9960+00
-5.8	3.9918+00	4.1479+01	4.5471+01	1.1682+02	-3.5280+00	3.9933+00
-5.6	3.9874+00	4.1419+01	4.5406+01	1.1492+02	-3.3285+00	3.9892+00
-5.4	3.9806+00	4.1326+01	4.5307+01	1.1299+02	-3.1292+00	3.9828+00
-5.2	3.9701+00	4.1184+01	4.5154+01	1.1102+02	-2.9304+00	3.9730+00
-5.0	3.9543+00	4.0965+01	4.4919+01	1.0898+02	-2.7321+00	3.9578+00
-4.8	3.9304+00	4.0634+01	4.4564+01	1.0683+02	-2.5348+00	3.9348+00
-4.6	3.8950+00	4.0140+01	4.4035+01	1.0453+02	-2.3387+00	3.9004+00
-4.4	3.8441+00	3.9427+01	4.3271+01	1.0204+02	-2.1444+00	3.8506+00
-4.2	3.7734+00	3.8433+01	4.2206+01	9.9289+01	-1.9525+00	3.7811+00
-4.0	3.6800+00	3.7116+01	4.0796+01	9.6254+01	-1.7633+00	3.6890+00
-3.8	3.5634+00	3.5467+01	3.9030+01	9.2937+01	-1.5773+00	3.5736+00
-3.6	3.4267+00	3.3529+01	3.6956+01	8.9389+01	-1.3943+00	3.4379+00
-3.4	3.2762+00	3.1393+01	3.4669+01	8.5709+01	-1.2138+00	3.2881+00
-3.2	3.1200+00	2.9171+01	3.2291+01	8.2014+01	-1.0350+00	3.1324+00
-3.0	2.9661+00	2.6979+01	2.9945+01	7.8421+01	-8.5700-01	2.9786+00
-2.8	2.8210+00	2.4909+01	2.7730+01	7.5018+01	-6.7879-01	2.8334+00
-2.6	2.6888+00	2.3021+01	2.5710+01	7.1863+01	-4.9962-01	2.7009+00
-2.4	2.5720+00	2.1349+01	2.3921+01	6.8980+01	-3.1893-01	2.5835+00
-2.2	2.4708+00	1.9901+01	2.2372+01	6.6371+01	-1.3635-01	2.4817+00
-2.0	2.3848+00	1.8668+01	2.1053+01	6.4021+01	4.8269-02	2.3950+00
-1.8	2.3127+00	1.7632+01	1.9945+01	6.1904+01	2.3492-01	2.3221+00
-1.6	2.2526+00	1.6770+01	1.9023+01	5.9991+01	4.2349-01	2.2613+00
-1.4	2.2029+00	1.6057+01	1.8260+01	5.8252+01	6.1380-01	2.2108+00
-1.2	2.1617+00	1.5468+01	1.7630+01	5.6659+01	8.0561-01	2.1689+00
-1.0	2.1273+00	1.4980+01	1.7107+01	5.5183+01	9.9864-01	2.1338+00
-.8	2.0980+00	1.4569+01	1.6667+01	5.3800+01	1.1926+00	2.1037+00
-.6	2.0720+00	1.4215+01	1.6287+01	5.2485+01	1.3872+00	2.0770+00
-.4	2.0476+00	1.3894+01	1.5941+01	5.1216+01	1.5820+00	2.0516+00
-.2	2.0225+00	1.3583+01	1.5605+01	4.9967+01	1.7767+00	2.0255+00
.0	1.9946+00	1.3255+01	1.5250+01	4.8715+01	1.9707+00	1.9961+00
.2	1.9612+00	1.2884+01	1.4846+01	4.7433+01	2.1633+00	1.9608+00
.4	1.9200+00	1.2443+01	1.4363+01	4.6097+01	2.3541+00	1.9170+00
.6	1.8696+00	1.1912+01	1.3781+01	4.4693+01	2.5425+00	1.8626+00
.8	1.8098+00	1.1284+01	1.3094+01	4.3218+01	2.7284+00	1.7973+00
1.0	1.7429+00	1.0573+01	1.2316+01	4.1689+01	2.9121+00	1.7223+00
1.2	1.6731+00	9.8067+00	1.1480+01	4.0136+01	3.0943+00	1.6409+00
1.4	1.6061+00	9.0202+00	1.0626+01	3.8594+01	3.2766+00	1.5569+00
1.6	1.5485+00	8.2497+00	9.7981+00	3.7098+01	3.4607+00	1.4741+00
1.8	1.5071+00	7.5231+00	9.0302+00	3.5668+01	3.6490+00	1.3957+00
2.0	1.4902+00	6.8592+00	8.3494+00	3.4315+01	3.8441+00	1.3235+00
2.2	1.5082+00	6.2683+00	7.7765+00	3.3036+01	4.0493+00	1.2584+00

T= 12900

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.3300-17	2.4800-13	4.9800-01	1.0800-03	9.9000-05	5.0000-01
-6.8	2.1200-16	6.2400-13	4.9900-01	6.8000-04	1.5700-04	5.0000-01
-6.6	8.4400-16	1.5700-12	4.9900-01	4.3000-04	2.4900-04	5.0000-01
-6.4	3.3500-15	3.9400-12	4.9900-01	2.7200-04	3.9400-04	5.0000-01
-6.2	1.3300-14	9.8800-12	4.9900-01	1.7200-04	6.2400-04	5.0000-01
-6.0	5.2900-14	2.4800-11	4.9900-01	1.0800-04	9.8700-04	5.0000-01
-5.8	2.0900-13	6.2000-11	4.9900-01	6.8500-05	1.5600-03	4.9900-01
-5.6	8.2800-13	1.5500-10	4.9900-01	4.3300-05	2.4700-03	4.9900-01
-5.4	3.2600-12	3.8600-10	4.9800-01	2.7400-05	3.8900-03	4.9800-01
-5.2	1.2700-11	9.5900-10	4.9700-01	1.7400-05	6.1200-03	4.9700-01
-5.0	4.9400-11	2.3600-09	4.9500-01	1.1000-05	9.5900-03	4.9500-01
-4.8	1.8900-10	5.7700-09	4.9300-01	7.0100-06	1.4900-02	4.9300-01
-4.6	7.0800-10	1.3900-08	4.8800-01	4.4700-06	2.3100-02	4.8800-01
-4.4	2.5800-09	3.2800-08	4.8200-01	2.8700-06	3.5100-02	4.8200-01
-4.2	9.0300-09	7.5200-08	4.7400-01	1.8500-06	5.2700-02	4.7400-01
-4.0	3.0000-08	1.6600-07	4.6100-01	1.2000-06	7.7200-02	4.6100-01
-3.8	9.3900-08	3.5200-07	4.4500-01	7.8600-07	1.1000-01	4.4500-01
-3.6	2.7300-07	7.0600-07	4.2400-01	5.1900-07	1.5200-01	4.2400-01
-3.4	7.4000-07	1.3500-06	3.9900-01	3.4500-07	2.0300-01	3.9900-01
-3.2	1.8600-06	2.4300-06	3.6900-01	2.3100-07	2.6200-01	3.6900-01
-3.0	4.3600-06	4.1700-06	3.3700-01	1.5500-07	3.2600-01	3.3700-01
-2.8	9.6100-06	6.8200-06	3.0300-01	1.0400-07	3.9500-01	3.0300-01
-2.6	2.0100-05	1.0700-05	2.6800-01	6.9800-08	4.6400-01	2.6800-01
-2.4	3.9900-05	1.6300-05	2.3400-01	4.6800-08	5.3200-01	2.3400-01
-2.2	7.6300-05	2.3900-05	2.0200-01	3.1300-08	5.9600-01	2.0200-01
-2.0	1.4100-04	3.4200-05	1.7200-01	2.0900-08	6.5600-01	1.7200-01
-1.8	2.5300-04	4.8000-05	1.4500-01	1.3900-08	7.0900-01	1.4500-01
-1.6	4.4400-04	6.6000-05	1.2100-01	9.2400-09	7.5600-01	1.2200-01
-1.4	7.6300-04	8.9500-05	1.0100-01	6.1300-09	7.9700-01	1.0100-01
-1.2	1.2900-03	1.2000-04	8.3300-02	4.0700-09	8.3200-01	8.3400-02
-1.0	2.1500-03	1.5900-04	6.8400-02	2.7000-09	8.6100-01	6.8600-02
-.8	3.5500-03	2.0800-04	5.6000-02	1.7900-09	8.8400-01	5.6200-02
-.6	5.7800-03	2.7100-04	4.5700-02	1.2000-09	9.0200-01	4.6000-02
-.4	9.3300-03	3.5100-04	3.7200-02	7.9900-10	9.1600-01	3.7500-02
-.2	1.4900-02	4.5000-04	3.0200-02	5.3700-10	9.2400-01	3.0600-02
.0	2.3400-02	5.7200-04	2.4500-02	3.6300-10	9.2700-01	2.5100-02
.2	3.6200-02	7.1900-04	1.9800-02	2.4700-10	9.2300-01	2.0500-02
.4	5.4800-02	8.9000-04	1.6000-02	1.6900-10	9.1100-01	1.6900-02
.6	8.0900-02	1.0800-03	1.2900-02	1.1700-10	8.9100-01	1.4000-02
.8	1.1600-01	1.2900-03	1.0300-02	8.1500-11	8.6100-01	1.1600-02
1.0	1.6100-01	1.5000-03	8.2400-03	5.7200-11	8.2000-01	9.7400-03
1.2	2.1600-01	1.7000-03	6.5400-03	4.0500-11	7.6800-01	8.2400-03
1.4	2.7900-01	1.8900-03	5.1500-03	2.8900-11	7.0700-01	7.0400-03
1.6	3.4900-01	2.0600-03	4.0400-03	2.0900-11	6.3800-01	6.1000-03
1.8	4.2500-01	2.2300-03	3.1500-03	1.5400-11	5.6500-01	5.3800-03
2.0	5.0200-01	2.4300-03	2.4700-03	1.1800-11	4.8800-01	4.9000-03
2.2	5.8100-01	2.7400-03	1.9600-03	9.6700-12	4.1000-01	4.7000-03

T= 12900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0036+00	4.1420+01	4.5424+01	1.2813+02	-4.7234+00	4.0039+00
-6.8	4.0017+00	4.1372+01	4.5374+01	1.2624+02	-4.5236+00	4.0021+00
-6.6	4.0002+00	4.1339+01	4.5339+01	1.2436+02	-4.3237+00	4.0007+00
-6.4	3.9988+00	4.1312+01	4.5311+01	1.2249+02	-4.1239+00	3.9995+00
-6.2	3.9973+00	4.1288+01	4.5285+01	1.2063+02	-3.9240+00	3.9982+00
-6.0	3.9954+00	4.1259+01	4.5255+01	1.1876+02	-3.7243+00	3.9965+00
-5.8	3.9926+00	4.1222+01	4.5214+01	1.1688+02	-3.5246+00	3.9941+00
-5.6	3.9886+00	4.1167+01	4.5155+01	1.1499+02	-3.3250+00	3.9904+00
-5.4	3.9824+00	4.1083+01	4.5066+01	1.1307+02	-3.1257+00	3.9846+00
-5.2	3.9729+00	4.0956+01	4.4929+01	1.1111+02	-2.9267+00	3.9758+00
-5.0	3.9586+00	4.0760+01	4.4718+01	1.0909+02	-2.7283+00	3.9621+00
-4.8	3.9369+00	4.0461+01	4.4398+01	1.0697+02	-2.5307+00	3.9412+00
-4.6	3.9046+00	4.0015+01	4.3920+01	1.0472+02	-2.3342+00	3.9099+00
-4.4	3.8577+00	3.9365+01	4.3223+01	1.0228+02	-2.1395+00	3.8642+00
-4.2	3.7921+00	3.8451+01	4.2243+01	9.9606+01	-1.9469+00	3.7999+00
-4.0	3.7043+00	3.7223+01	4.0928+01	9.6651+01	-1.7571+00	3.7134+00
-3.8	3.5932+00	3.5664+01	3.9258+01	9.3411+01	-1.5703+00	3.6035+00
-3.6	3.4609+00	3.3805+01	3.7266+01	8.9927+01	-1.3866+00	3.4723+00
-3.4	3.3130+00	3.1723+01	3.5036+01	8.6284+01	-1.2056+00	3.3253+00
-3.2	3.1575+00	2.9528+01	3.2686+01	8.2600+01	-1.0265+00	3.1704+00
-3.0	3.0025+00	2.7337+01	3.0339+01	7.8990+01	-8.4833-01	3.0155+00
-2.8	2.8548+00	2.5246+01	2.8101+01	7.5551+01	-6.7024-01	2.8678+00
-2.6	2.7193+00	2.3326+01	2.6045+01	7.2348+01	-4.9135-01	2.7320+00
-2.4	2.5987+00	2.1614+01	2.4212+01	6.9411+01	-3.1106-01	2.6109+00
-2.2	2.4938+00	2.0123+01	2.2617+01	6.6749+01	-1.2895-01	2.5053+00
-2.0	2.4043+00	1.8849+01	2.1253+01	6.4348+01	5.5177-02	2.4151+00
-1.8	2.3289+00	1.7775+01	2.0104+01	6.2185+01	2.4135-01	2.3390+00
-1.6	2.2661+00	1.6880+01	1.9146+01	6.0232+01	4.2947-01	2.2754+00
-1.4	2.2140+00	1.6138+01	1.8352+01	5.8459+01	6.1938-01	2.2225+00
-1.2	2.1709+00	1.5525+01	1.7696+01	5.6836+01	8.1084-01	2.1786+00
-1.0	2.1350+00	1.5017+01	1.7152+01	5.5337+01	1.0036+00	2.1420+00
-.8	2.1045+00	1.4592+01	1.6696+01	5.3936+01	1.1973+00	2.1107+00
-.6	2.0778+00	1.4227+01	1.6305+01	5.2608+01	1.3918+00	2.0831+00
-.4	2.0529+00	1.3900+01	1.5953+01	5.1330+01	1.5866+00	2.0573+00
-.2	2.0279+00	1.3587+01	1.5615+01	5.0077+01	1.7812+00	2.0311+00
.0	2.0004+00	1.3263+01	1.5264+01	4.8826+01	1.9753+00	2.0022+00
.2	1.9679+00	1.2901+01	1.4869+01	4.7550+01	2.1682+00	1.9679+00
.4	1.9281+00	1.2473+01	1.4401+01	4.6224+01	2.3593+00	1.9253+00
.6	1.8792+00	1.1959+01	1.3838+01	4.4833+01	2.5482+00	1.8726+00
.8	1.8211+00	1.1349+01	1.3170+01	4.3371+01	2.7345+00	1.8087+00
1.0	1.7554+00	1.0654+01	1.2409+01	4.1852+01	2.9186+00	1.7350+00
1.2	1.6864+00	9.8972+00	1.1584+01	4.0303+01	3.1011+00	1.6541+00
1.4	1.6195+00	9.1154+00	1.0735+01	3.8760+01	3.2836+00	1.5700+00
1.6	1.5613+00	8.3440+00	9.9053+00	3.7257+01	3.4677+00	1.4865+00
1.8	1.5190+00	7.6124+00	9.1314+00	3.5817+01	3.6558+00	1.4070+00
2.0	1.5010+00	6.9406+00	8.4415+00	3.4451+01	3.8506+00	1.3333+00
2.2	1.5177+00	6.3403+00	7.8580+00	3.3157+01	4.0554+00	1.2668+00

T= 13000

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.9900-17	2.1000-13	4.9800-01	1.3300-03	8.8800-05	5.0100-01
-6.8	1.5900-16	5.2800-13	4.9900-01	8.4300-04	1.4100-04	5.0000-01
-6.6	6.3200-16	1.3300-12	4.9900-01	5.3300-04	2.2300-04	5.0000-01
-6.4	2.5100-15	3.3300-12	4.9900-01	3.3700-04	3.5300-04	5.0000-01
-6.2	9.9900-15	8.3700-12	4.9900-01	2.1300-04	5.6000-04	5.0000-01
-6.0	3.9600-14	2.1000-11	4.9900-01	1.3400-04	8.8600-04	5.0000-01
-5.8	1.5700-13	5.2600-11	4.9900-01	8.4900-05	1.4000-03	4.9900-01
-5.6	6.2100-13	1.3100-10	4.9900-01	5.3700-05	2.2100-03	4.9900-01
-5.4	2.4500-12	3.2800-10	4.9800-01	3.4000-05	3.4900-03	4.9800-01
-5.2	9.5900-12	8.1400-10	4.9700-01	2.1500-05	5.5000-03	4.9700-01
-5.0	3.7300-11	2.0100-09	4.9600-01	1.3600-05	8.6200-03	4.9600-01
-4.8	1.4300-10	4.9300-09	4.9300-01	8.6800-06	1.3500-02	4.9300-01
-4.6	5.3900-10	1.1900-08	4.9000-01	5.5300-06	2.0800-02	4.9000-01
-4.4	1.9800-09	2.8200-08	4.8400-01	3.5400-06	3.1800-02	4.8400-01
-4.2	7.0000-09	6.5200-08	4.7600-01	2.2800-06	4.7900-02	4.7600-01
-4.0	2.3600-08	1.4600-07	4.6500-01	1.4800-06	7.0600-02	4.6500-01
-3.8	7.4800-08	3.1100-07	4.4900-01	9.6700-07	1.0100-01	4.4900-01
-3.6	2.2200-07	6.3300-07	4.2900-01	6.3700-07	1.4100-01	4.2900-01
-3.4	6.1000-07	1.2200-06	4.0500-01	4.2300-07	1.9000-01	4.0500-01
-3.2	1.5600-06	2.2300-06	3.7700-01	2.8300-07	2.4700-01	3.7700-01
-3.0	3.7200-06	3.8800-06	3.4500-01	1.9000-07	3.1000-01	3.4500-01
-2.8	8.3200-06	6.4200-06	3.1100-01	1.2700-07	3.7800-01	3.1100-01
-2.6	1.7600-05	1.0200-05	2.7600-01	8.5700-08	4.4700-01	2.7600-01
-2.4	3.5300-05	1.5600-05	2.4200-01	5.7500-08	5.1600-01	2.4200-01
-2.2	6.8100-05	2.3100-05	2.0900-01	3.8500-08	5.8100-01	2.0900-01
-2.0	1.2700-04	3.3200-05	1.7900-01	2.5800-08	6.4200-01	1.7900-01
-1.8	2.2900-04	4.6800-05	1.5100-01	1.7200-08	6.9700-01	1.5200-01
-1.6	4.0400-04	6.4600-05	1.2700-01	1.1400-08	7.4500-01	1.2700-01
-1.4	6.9800-04	8.7900-05	1.0600-01	7.5900-09	7.8800-01	1.0600-01
-1.2	1.1800-03	1.1800-04	8.7400-02	5.0400-09	8.2400-01	8.7500-02
-1.0	1.9800-03	1.5700-04	7.1900-02	3.3500-09	8.5400-01	7.2100-02
-.8	3.2800-03	2.0600-04	5.8900-02	2.2300-09	8.7800-01	5.9100-02
-.6	5.3500-03	2.6900-04	4.8100-02	1.4900-09	8.9800-01	4.8400-02
-.4	8.6500-03	3.4900-04	3.9200-02	9.9600-10	9.1200-01	3.9600-02
-.2	1.3800-02	4.4900-04	3.1900-02	6.7000-10	9.2200-01	3.2300-02
.0	2.1800-02	5.7200-04	2.5900-02	4.5400-10	9.2500-01	2.6400-02
.2	3.3800-02	7.2100-04	2.1000-02	3.0900-10	9.2300-01	2.1700-02
.4	5.1400-02	8.9600-04	1.7000-02	2.1200-10	9.1300-01	1.7800-02
.6	7.6300-02	1.0900-03	1.3700-02	1.4700-10	8.9400-01	1.4800-02
.8	1.1000-01	1.3100-03	1.1000-02	1.0300-10	8.6500-01	1.2300-02
1.0	1.5300-01	1.5300-03	8.7800-03	7.2400-11	8.2600-01	1.0300-02
1.2	2.0700-01	1.7500-03	6.9800-03	5.1400-11	7.7600-01	8.7300-03
1.4	2.6900-01	1.9500-03	5.5200-03	3.6900-11	7.1600-01	7.4700-03
1.6	3.3900-01	2.1400-03	4.3400-03	2.6900-11	6.4800-01	6.4800-03
1.8	4.1400-01	2.3300-03	3.4000-03	2.0000-11	5.7500-01	5.7300-03
2.0	4.9200-01	2.5600-03	2.6800-03	1.5500-11	4.9800-01	5.2400-03
2.2	5.7100-01	2.9000-03	2.1400-03	1.2900-11	4.1900-01	5.0400-03

T= 13000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0046+00	4.1182+01	4.5187+01	1.2821+02	-4.7199+00	4.0050+00
-6.8	4.0024+00	4.1125+01	4.5127+01	1.2631+02	-4.5201+00	4.0028+00
-6.6	4.0007+00	4.1085+01	4.5086+01	1.2443+02	-4.3203+00	4.0013+00
-6.4	3.9992+00	4.1056+01	4.5055+01	1.2256+02	-4.1205+00	4.0000+00
-6.2	3.9977+00	4.1030+01	4.5027+01	1.2069+02	-3.9206+00	3.9986+00
-6.0	3.9959+00	4.1002+01	4.4998+01	1.1882+02	-3.7208+00	3.9970+00
-5.8	3.9934+00	4.0967+01	4.4960+01	1.1695+02	-3.5211+00	3.9948+00
-5.6	3.9896+00	4.0917+01	4.4906+01	1.1506+02	-3.3215+00	3.9914+00
-5.4	3.9840+00	4.0842+01	4.4826+01	1.1315+02	-3.1221+00	3.9862+00
-5.2	3.9754+00	4.0727+01	4.4702+01	1.1120+02	-2.9231+00	3.9782+00
-5.0	3.9624+00	4.0551+01	4.4513+01	1.0919+02	-2.7245+00	3.9659+00
-4.8	3.9426+00	4.0282+01	4.4225+01	1.0711+02	-2.5267+00	3.9470+00
-4.6	3.9132+00	3.9879+01	4.3792+01	1.0489+02	-2.3299+00	3.9185+00
-4.4	3.8701+00	3.9287+01	4.3157+01	1.0251+02	-2.1347+00	3.8766+00
-4.2	3.8093+00	3.8447+01	4.2256+01	9.9899+01	-1.9416+00	3.8171+00
-4.0	3.7269+00	3.7305+01	4.1032+01	9.7021+01	-1.7511+00	3.7361+00
-3.8	3.6213+00	3.5836+01	3.9457+01	9.3859+01	-1.5636+00	3.6318+00
-3.6	3.4936+00	3.4056+01	3.7549+01	9.0440+01	-1.3792+00	3.5053+00
-3.4	3.3488+00	3.2033+01	3.5382+01	8.6841+01	-1.1976+00	3.3615+00
-3.2	3.1945+00	2.9871+01	3.3066+01	8.3172+01	-1.0181+00	3.2078+00
-3.0	3.0387+00	2.7687+01	3.0725+01	7.9552+01	-8.3978-01	3.0523+00
-2.8	2.8888+00	2.5581+01	2.8470+01	7.6082+01	-6.6174-01	2.9024+00
-2.6	2.7501+00	2.3631+01	2.6381+01	7.2834+01	-4.8310-01	2.7635+00
-2.4	2.6259+00	2.1881+01	2.4507+01	6.9846+01	-3.0318-01	2.6388+00
-2.2	2.5173+00	2.0349+01	2.2866+01	6.7131+01	-1.2152-01	2.5295+00
-2.0	2.4242+00	1.9034+01	2.1458+01	6.4679+01	6.2120-02	2.4357+00
-1.8	2.3457+00	1.7923+01	2.0269+01	6.2470+01	2.4781-01	2.3564+00
-1.6	2.2800+00	1.6994+01	1.9274+01	6.0476+01	4.3548-01	2.2899+00
-1.4	2.2256+00	1.6223+01	1.8449+01	5.8669+01	6.2498-01	2.2346+00
-1.2	2.1804+00	1.5586+01	1.7766+01	5.7017+01	8.1609-01	2.1887+00
-1.0	2.1429+00	1.5058+01	1.7201+01	5.5494+01	1.0085+00	2.1504+00
-.8	2.1112+00	1.4617+01	1.6728+01	5.4074+01	1.2021+00	2.1179+00
-.6	2.0836+00	1.4241+01	1.6324+01	5.2732+01	1.3964+00	2.0894+00
-.4	2.0582+00	1.3907+01	1.5965+01	5.1444+01	1.5910+00	2.0630+00
-.2	2.0331+00	1.3592+01	1.5625+01	5.0187+01	1.7857+00	2.0368+00
.0	2.0060+00	1.3270+01	1.5276+01	4.8935+01	1.9799+00	2.0082+00
.2	1.9744+00	1.2916+01	1.4890+01	4.7664+01	2.1730+00	1.9747+00
.4	1.9359+00	1.2500+01	1.4436+01	4.6348+01	2.3644+00	1.9334+00
.6	1.8886+00	1.2002+01	1.3891+01	4.4969+01	2.5537+00	1.8821+00
.8	1.8319+00	1.1410+01	1.3242+01	4.3519+01	2.7405+00	1.8199+00
1.0	1.7676+00	1.0730+01	1.2497+01	4.2010+01	2.9249+00	1.7472+00
1.2	1.6993+00	9.9843+00	1.1684+01	4.0467+01	3.1078+00	1.6670+00
1.4	1.6326+00	9.2081+00	1.0841+01	3.8923+01	3.2904+00	1.5829+00
1.6	1.5740+00	8.4367+00	1.0011+01	3.7414+01	3.4745+00	1.4989+00
1.8	1.5309+00	7.7007+00	9.2316+00	3.5964+01	3.6625+00	1.4182+00
2.0	1.5118+00	7.0215+00	8.5333+00	3.4585+01	3.8570+00	1.3432+00
2.2	1.5272+00	6.4123+00	7.9396+00	3.3278+01	4.0615+00	1.2752+00

T= 13100

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.0000-17	1.7800-13	4.9700-01	1.6400-03	7.9700-05	5.0100-01
-6.8	1.2000-16	4.4800-13	4.9800-01	1.0400-03	1.2600-04	5.0000-01
-6.6	4.7600-16	1.1300-12	4.9900-01	6.5800-04	2.0000-04	5.0000-01
-6.4	1.8900-15	2.8300-12	4.9900-01	4.1600-04	3.1700-04	5.0000-01
-6.2	7.5200-15	7.1000-12	4.9900-01	2.6300-04	5.0300-04	5.0000-01
-6.0	2.9900-14	1.7800-11	4.9900-01	1.6600-04	7.9600-04	5.0000-01
-5.8	1.1800-13	4.4600-11	4.9900-01	1.0500-04	1.2600-03	4.9900-01
-5.6	4.6800-13	1.1200-10	4.9900-01	6.6400-05	1.9900-03	4.9900-01
-5.4	1.8500-12	2.7900-10	4.9800-01	4.2000-05	3.1400-03	4.9800-01
-5.2	7.2500-12	6.9300-10	4.9700-01	2.6600-05	4.9500-03	4.9800-01
-5.0	2.8200-11	1.7100-09	4.9600-01	1.6900-05	7.7700-03	4.9600-01
-4.8	1.0900-10	4.2100-09	4.9400-01	1.0700-05	1.2100-02	4.9400-01
-4.6	4.1200-10	1.0200-08	4.9100-01	6.8200-06	1.8800-02	4.9100-01
-4.4	1.5200-09	2.4300-08	4.8600-01	4.3700-06	2.8900-02	4.8600-01
-4.2	5.4300-09	5.6600-08	4.7800-01	2.8100-06	4.3600-02	4.7800-01
-4.0	1.8500-08	1.2700-07	4.6800-01	1.8200-06	6.4700-02	4.6800-01
-3.8	5.9700-08	2.7500-07	4.5300-01	1.1900-06	9.3400-02	4.5300-01
-3.6	1.8000-07	5.6700-07	4.3500-01	7.8100-07	1.3100-01	4.3500-01
-3.4	5.0300-07	1.1100-06	4.1100-01	5.1800-07	1.7800-01	4.1100-01
-3.2	1.3100-06	2.0500-06	3.8400-01	3.4600-07	2.3300-01	3.8400-01
-3.0	3.1700-06	3.6000-06	3.5200-01	2.3200-07	2.9500-01	3.5300-01
-2.8	7.1900-06	6.0200-06	3.1900-01	1.5600-07	3.6200-01	3.1900-01
-2.6	1.5400-05	9.6500-06	2.8500-01	1.0500-07	4.3100-01	2.8500-01
-2.4	3.1300-05	1.4900-05	2.5000-01	7.0500-08	5.0000-01	2.5000-01
-2.2	6.0800-05	2.2200-05	2.1700-01	4.7300-08	5.6600-01	2.1700-01
-2.0	1.1400-04	3.2200-05	1.8600-01	3.1600-08	6.2800-01	1.8600-01
-1.8	2.0800-04	4.5500-05	1.5800-01	2.1100-08	6.8400-01	1.5800-01
-1.6	3.6800-04	6.3200-05	1.3300-01	1.4100-08	7.3400-01	1.3300-01
-1.4	6.3900-04	8.6300-05	1.1100-01	9.3600-09	7.7800-01	1.1100-01
-1.2	1.0900-03	1.1600-04	9.1600-02	6.2300-09	8.1500-01	9.1700-02
-1.0	1.8300-03	1.5500-04	7.5500-02	4.1400-09	8.4700-01	7.5700-02
-.8	3.0300-03	2.0400-04	6.1900-02	2.7600-09	8.7300-01	6.2100-02
-.6	4.9600-03	2.6700-04	5.0700-02	1.8400-09	8.9300-01	5.0900-02
-.4	8.0300-03	3.4700-04	4.1300-02	1.2400-09	9.0900-01	4.1700-02
-.2	1.2900-02	4.4700-04	3.3600-02	8.3300-10	9.1900-01	3.4100-02
.0	2.0300-02	5.7100-04	2.7300-02	5.6500-10	9.2400-01	2.7900-02
.2	3.1600-02	7.2100-04	2.2200-02	3.8600-10	9.2300-01	2.2900-02
.4	4.8300-02	9.0000-04	1.7900-02	2.6500-10	9.1400-01	1.8800-02
.6	7.2000-02	1.1000-03	1.4500-02	1.8400-10	8.9700-01	1.5600-02
.8	1.0400-01	1.3300-03	1.1700-02	1.2900-10	8.7000-01	1.3000-02
1.0	1.4600-01	1.5600-03	9.3400-03	9.1200-11	8.3200-01	1.0900-02
1.2	1.9800-01	1.7900-03	7.4500-03	6.5100-11	7.8300-01	9.2300-03
1.4	2.5900-01	2.0100-03	5.9000-03	4.7000-11	7.2500-01	7.9100-03
1.6	3.2800-01	2.2200-03	4.6600-03	3.4500-11	6.5800-01	6.8800-03
1.8	4.0300-01	2.4300-03	3.6700-03	2.5900-11	5.8500-01	6.1000-03
2.0	4.8100-01	2.6900-03	2.9000-03	2.0200-11	5.0800-01	5.5900-03
2.2	5.6000-01	3.0700-03	2.3300-03	1.7200-11	4.2900-01	5.4000-03



T= 13100

LOG D.	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0059+00	4.0954+01	4.4960+01	1.2830+02	-4.7164+00	4.0063+00
-6.8	4.0032+00	4.0884+01	4.4888+01	1.2638+02	-4.5167+00	4.0037+00
-6.6	4.0013+00	4.0838+01	4.4839+01	1.2449+02	-4.3169+00	4.0019+00
-6.4	3.9997+00	4.0804+01	4.4804+01	1.2262+02	-4.1171+00	4.0004+00
-6.2	3.9982+00	4.0776+01	4.4774+01	1.2075+02	-3.9173+00	3.9991+00
-6.0	3.9964+00	4.0749+01	4.4745+01	1.1888+02	-3.7175+00	3.9975+00
-5.8	3.9940+00	4.0715+01	4.4709+01	1.1701+02	-3.5177+00	3.9954+00
-5.6	3.9906+00	4.0669+01	4.4660+01	1.1512+02	-3.3181+00	3.9923+00
-5.4	3.9855+00	4.0601+01	4.4587+01	1.1322+02	-3.1187+00	3.9877+00
-5.2	3.9777+00	4.0498+01	4.4476+01	1.1128+02	-2.9195+00	3.9804+00
-5.0	3.9658+00	4.0340+01	4.4305+01	1.0929+02	-2.7208+00	3.9693+00
-4.8	3.9478+00	4.0098+01	4.4045+01	1.0723+02	-2.5228+00	3.9521+00
-4.6	3.9209+00	3.9733+01	4.3654+01	1.0505+02	-2.3257+00	3.9262+00
-4.4	3.8813+00	3.9194+01	4.3075+01	1.0272+02	-2.1301+00	3.8878+00
-4.2	3.8250+00	3.8423+01	4.2248+01	1.0017+02	-1.9365+00	3.8328+00
-4.0	3.7479+00	3.7363+01	4.1111+01	9.7365+01	-1.7453+00	3.7571+00
-3.8	3.6477+00	3.5981+01	3.9628+01	9.4279+01	-1.5571+00	3.6583+00
-3.6	3.5249+00	3.4282+01	3.7807+01	9.0928+01	-1.3720+00	3.5368+00
-3.4	3.3835+00	3.2323+01	3.5707+01	8.7378+01	-1.1898+00	3.3965+00
-3.2	3.2307+00	3.0200+01	3.3431+01	8.3732+01	-1.0098+00	3.2445+00
-3.0	3.0746+00	2.8028+01	3.1103+01	8.0107+01	-8.3134-01	3.0888+00
-2.8	2.9228+00	2.5913+01	2.8836+01	7.6611+01	-6.5333-01	2.9371+00
-2.6	2.7813+00	2.3936+01	2.6717+01	7.3322+01	-4.7489-01	2.7953+00
-2.4	2.6535+00	2.2150+01	2.4804+01	7.0285+01	-2.9531-01	2.6671+00
-2.2	2.5413+00	2.0578+01	2.3120+01	6.7517+01	-1.1407-01	2.5542+00
-2.0	2.4447+00	1.9224+01	2.1669+01	6.5015+01	6.9095-02	2.4569+00
-1.8	2.3629+00	1.8075+01	2.0438+01	6.2760+01	2.5431-01	2.3742+00
-1.6	2.2944+00	1.7112+01	1.9407+01	6.0726+01	4.4153-01	2.3049+00
-1.4	2.2374+00	1.6312+01	1.8550+01	5.8882+01	6.3062-01	2.2471+00
-1.2	2.1903+00	1.5650+01	1.7840+01	5.7201+01	8.2137-01	2.1991+00
-1.0	2.1511+00	1.5102+01	1.7253+01	5.5654+01	1.0135+00	2.1591+00
-.8	2.1181+00	1.4645+01	1.6763+01	5.4214+01	1.2068+00	2.1252+00
-.6	2.0895+00	1.4257+01	1.6346+01	5.2857+01	1.4009+00	2.0958+00
-.4	2.0636+00	1.3915+01	1.5978+01	5.1559+01	1.5955+00	2.0689+00
-.2	2.0383+00	1.3596+01	1.5635+01	5.0296+01	1.7901+00	2.0424+00
.0	2.0115+00	1.3277+01	1.5288+01	4.9043+01	1.9844+00	2.0141+00
.2	1.9807+00	1.2928+01	1.4909+01	4.7776+01	2.1777+00	1.9813+00
.4	1.9433+00	1.2525+01	1.4468+01	4.6468+01	2.3694+00	1.9411+00
.6	1.8975+00	1.2042+01	1.3939+01	4.5101+01	2.5590+00	1.8913+00
.8	1.8424+00	1.1466+01	1.3309+01	4.3664+01	2.7463+00	1.8305+00
1.0	1.7794+00	1.0802+01	1.2581+01	4.2165+01	2.9312+00	1.7592+00
1.2	1.7120+00	1.0068+01	1.1780+01	4.0627+01	3.1144+00	1.6797+00
1.4	1.6455+00	9.2980+00	1.0944+01	3.9084+01	3.2972+00	1.5957+00
1.6	1.5866+00	8.5274+00	1.0114+01	3.7570+01	3.4814+00	1.5112+00
1.8	1.5428+00	7.7877+00	9.3305+00	3.6110+01	3.6692+00	1.4295+00
2.0	1.5226+00	7.1018+00	8.6244+00	3.4720+01	3.8635+00	1.3532+00
2.2	1.5368+00	6.4841+00	8.0210+00	3.3399+01	4.0675+00	1.2836+00

T= 13200

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.2700-17	1.5200-13	4.9700-01	2.0200-03	7.1700-05	5.0100-01
-6.8	9.0400-17	3.8100-13	4.9800-01	1.2800-03	1.1400-04	5.0100-01
-6.6	3.6000-16	9.5900-13	4.9900-01	8.1000-04	1.8000-04	5.0000-01
-6.4	1.4300-15	2.4100-12	4.9900-01	5.1200-04	2.8600-04	5.0000-01
-6.2	5.6900-15	6.0500-12	4.9900-01	3.2400-04	4.5200-04	5.0000-01
-6.0	2.2600-14	1.5200-11	4.9900-01	2.0500-04	7.1600-04	5.0000-01
-5.8	8.9600-14	3.8000-11	4.9900-01	1.2900-04	1.1300-03	5.0000-01
-5.6	3.5500-13	9.5100-11	4.9900-01	8.1700-05	1.7900-03	4.9900-01
-5.4	1.4000-12	2.3800-10	4.9900-01	5.1700-05	2.8300-03	4.9900-01
-5.2	5.5000-12	5.9200-10	4.9800-01	3.2700-05	4.4600-03	4.9800-01
-5.0	2.1500-11	1.4700-09	4.9600-01	2.0800-05	7.0000-03	4.9700-01
-4.8	8.2900-11	3.6000-09	4.9400-01	1.3200-05	1.1000-02	4.9500-01
-4.6	3.1500-10	8.7700-09	4.9100-01	8.3900-06	1.7000-02	4.9100-01
-4.4	1.1700-09	2.1000-08	4.8700-01	5.3700-06	2.6200-02	4.8700-01
-4.2	4.2200-09	4.9100-08	4.8000-01	3.4500-06	3.9700-02	4.8000-01
-4.0	1.4600-08	1.1200-07	4.7000-01	2.2300-06	5.9200-02	4.7000-01
-3.8	4.7600-08	2.4300-07	4.5700-01	1.4500-06	8.6000-02	4.5700-01
-3.6	1.4600-07	5.0700-07	4.3900-01	9.5400-07	1.2100-01	4.3900-01
-3.4	4.1500-07	1.0000-06	4.1700-01	6.3200-07	1.6600-01	4.1700-01
-3.2	1.1000-06	1.8800-06	3.9000-01	4.2100-07	2.1900-01	3.9000-01
-3.0	2.7000-06	3.3400-06	3.6000-01	2.8200-07	2.8000-01	3.6000-01
-2.8	6.2100-06	5.6500-06	3.2700-01	1.9000-07	3.4600-01	3.2700-01
-2.6	1.3400-05	9.1400-06	2.9300-01	1.2800-07	4.1500-01	2.9300-01
-2.4	2.7600-05	1.4200-05	2.5800-01	8.6000-08	4.8400-01	2.5800-01
-2.2	5.4300-05	2.1400-05	2.2500-01	5.7800-08	5.5100-01	2.2500-01
-2.0	1.0300-04	3.1200-05	1.9300-01	3.8700-08	6.1300-01	1.9300-01
-1.8	1.8800-04	4.4400-05	1.6400-01	2.5900-08	6.7100-01	1.6400-01
-1.6	3.3500-04	6.1800-05	1.3800-01	1.7300-08	7.2300-01	1.3800-01
-1.4	5.8500-04	8.4800-05	1.1600-01	1.1500-08	7.6800-01	1.1600-01
-1.2	1.0000-03	1.1500-04	9.5900-02	7.6600-09	8.0700-01	9.6100-02
-1.0	1.6800-03	1.5300-04	7.9200-02	5.1100-09	8.4000-01	7.9300-02
-.8	2.8000-03	2.0200-04	6.5100-02	3.4100-09	8.6700-01	6.5300-02
-.6	4.5900-03	2.6500-04	5.3300-02	2.2800-09	8.8800-01	5.3500-02
-.4	7.4500-03	3.4500-04	4.3500-02	1.5300-09	9.0500-01	4.3800-02
-.2	1.2000-02	4.4500-04	3.5400-02	1.0300-09	9.1600-01	3.5900-02
.0	1.9000-02	5.7000-04	2.8800-02	7.0100-10	9.2200-01	2.9400-02
.2	2.9600-02	7.2300-04	2.3400-02	4.7900-10	9.2200-01	2.4100-02
.4	4.5300-02	9.0500-04	1.9000-02	3.3100-10	9.1500-01	1.9900-02
.6	6.7900-02	1.1100-03	1.5300-02	2.3000-10	8.9900-01	1.6500-02
.8	9.8800-02	1.3500-03	1.2400-02	1.6200-10	8.7400-01	1.3700-02
1.0	1.3900-01	1.5900-03	9.9300-03	1.1500-10	8.3800-01	1.1500-02
1.2	1.9000-01	1.8300-03	7.9300-03	8.2200-11	7.9100-01	9.7700-03
1.4	2.5000-01	2.0700-03	6.3100-03	5.9700-11	7.3300-01	8.3800-03
1.6	3.1800-01	2.3000-03	4.9900-03	4.4100-11	6.6800-01	7.2900-03
1.8	3.9200-01	2.5400-03	3.9500-03	3.3400-11	5.9500-01	6.4900-03
2.0	4.7000-01	2.8300-03	3.1400-03	2.6500-11	5.1800-01	5.9600-03
2.2	5.5000-01	3.2500-03	2.5300-03	2.2900-11	4.3800-01	5.7900-03

$\tau = 13200$ 

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0075+00	4.0736+01	4.4744+01	1.2839+02	-4.7130+00	4.0078+00
-6.8	4.0043+00	4.0653+01	4.4657+01	1.2646+02	-4.5133+00	4.0047+00
-6.6	4.0020+00	4.0597+01	4.4599+01	1.2456+02	-4.3135+00	4.0025+00
-6.4	4.0002+00	4.0558+01	4.4558+01	1.2268+02	-4.1137+00	4.0009+00
-6.2	3.9986+00	4.0528+01	4.4526+01	1.2081+02	-3.9139+00	3.9995+00
-6.0	3.9969+00	4.0499+01	4.4496+01	1.1894+02	-3.7141+00	3.9980+00
-5.8	3.9946+00	4.0467+01	4.4462+01	1.1707+02	-3.5143+00	3.9960+00
-5.6	3.9915+00	4.0424+01	4.4416+01	1.1519+02	-3.3147+00	3.9932+00
-5.4	3.9868+00	4.0363+01	4.4349+01	1.1329+02	-3.1152+00	3.9889+00
-5.2	3.9797+00	4.0269+01	4.4249+01	1.1136+02	-2.9160+00	3.9824+00
-5.0	3.9689+00	4.0127+01	4.4095+01	1.0939+02	-2.7172+00	3.9723+00
-4.8	3.9525+00	3.9908+01	4.3861+01	1.0734+02	-2.5190+00	3.9567+00
-4.6	3.9278+00	3.9578+01	4.3506+01	1.0520+02	-2.3217+00	3.9331+00
-4.4	3.8915+00	3.9088+01	4.2979+01	1.0291+02	-2.1257+00	3.8980+00
-4.2	3.8394+00	3.8380+01	4.2220+01	1.0042+02	-1.9316+00	3.8472+00
-4.0	3.7673+00	3.7399+01	4.1166+01	9.7685+01	-1.7398+00	3.7766+00
-3.8	3.6725+00	3.6102+01	3.9774+01	9.4674+01	-1.5509+00	3.6832+00
-3.6	3.5547+00	3.4485+01	3.8040+01	9.1392+01	-1.3650+00	3.5668+00
-3.4	3.4171+00	3.2594+01	3.6011+01	8.7895+01	-1.1822+00	3.4304+00
-3.2	3.2662+00	3.0515+01	3.3781+01	8.4277+01	-1.0018+00	3.2804+00
-3.0	3.1102+00	2.8360+01	3.1471+01	8.0654+01	-8.2303-01	3.1250+00
-2.8	2.9569+00	2.6240+01	2.9197+01	7.7137+01	-6.4499-01	2.9718+00
-2.6	2.8127+00	2.4241+01	2.7054+01	7.3810+01	-4.6671-01	2.8274+00
-2.4	2.6816+00	2.2422+01	2.5104+01	7.0726+01	-2.8743-01	2.6959+00
-2.2	2.5658+00	2.0812+01	2.3378+01	6.7908+01	-1.0661-01	2.5794+00
-2.0	2.4656+00	1.9418+01	2.1884+01	6.5357+01	7.6102-02	2.4786+00
-1.8	2.3805+00	1.8232+01	2.0613+01	6.3055+01	2.6085-01	2.3926+00
-1.6	2.3091+00	1.7235+01	1.9544+01	6.0979+01	4.4762-01	2.3203+00
-1.4	2.2497+00	1.6406+01	1.8655+01	5.9100+01	6.3629-01	2.2600+00
-1.2	2.2004+00	1.5718+01	1.7919+01	5.7388+01	8.2667-01	2.2098+00
-1.0	2.1594+00	1.5149+01	1.7309+01	5.5816+01	1.0185+00	2.1680+00
-.8	2.1251+00	1.4676+01	1.6801+01	5.4356+01	1.2116+00	2.1328+00
-.6	2.0956+00	1.4275+01	1.6370+01	5.2983+01	1.4055+00	2.1023+00
-.4	2.0690+00	1.3924+01	1.5993+01	5.1674+01	1.5999+00	2.0747+00
-.2	2.0436+00	1.3602+01	1.5645+01	5.0405+01	1.7946+00	2.0481+00
.0	2.0169+00	1.3283+01	1.5300+01	4.9150+01	1.9889+00	2.0199+00
.2	1.9867+00	1.2940+01	1.4927+01	4.7886+01	2.1823+00	1.9877+00
.4	1.9505+00	1.2547+01	1.4497+01	4.6586+01	2.3743+00	1.9486+00
.6	1.9061+00	1.2078+01	1.3984+01	4.5229+01	2.5643+00	1.9002+00
.8	1.8526+00	1.1519+01	1.3372+01	4.3804+01	2.7519+00	1.8409+00
1.0	1.7909+00	1.0870+01	1.2661+01	4.2316+01	2.9373+00	1.7708+00
1.2	1.7244+00	1.0148+01	1.1873+01	4.0785+01	3.1208+00	1.6922+00
1.4	1.6583+00	9.3854+00	1.1044+01	3.9243+01	3.3038+00	1.6083+00
1.6	1.5992+00	8.6164+00	1.0216+01	3.7724+01	3.4881+00	1.5233+00
1.8	1.5546+00	7.8737+00	9.4283+00	3.6256+01	3.6758+00	1.4407+00
2.0	1.5334+00	7.1815+00	8.7149+00	3.4854+01	3.8698+00	1.3632+00
2.2	1.5465+00	6.5558+00	8.1023+00	3.3521+01	4.0735+00	1.2922+00

T= 13300

LDG D	NZ	NZ+	N+	N++	N	E
-7.0	1.7200-17	1.2900-13	4.9600-01	2.4800-03	6.4600-05	5.0100-01
-6.8	6.8600-17	3.2500-13	4.9800-01	1.5700-03	1.0200-04	5.0100-01
-6.6	2.7300-16	8.1700-13	4.9800-01	9.9400-04	1.6200-04	5.0000-01
-6.4	1.0900-15	2.0500-12	4.9900-01	6.2900-04	2.5700-04	5.0000-01
-6.2	4.3200-15	5.1600-12	4.9900-01	3.9800-04	4.0800-04	5.0000-01
-6.0	1.7200-14	1.2900-11	4.9900-01	2.5100-04	6.4600-04	5.0000-01
-5.8	6.8100-14	3.2400-11	4.9900-01	1.5900-04	1.0200-03	5.0000-01
-5.6	2.7000-13	8.1200-11	4.9900-01	1.0000-04	1.6200-03	4.9900-01
-5.4	1.0700-12	2.0300-10	4.9900-01	6.3500-05	2.5500-03	4.9900-01
-5.2	4.1900-12	5.0600-10	4.9800-01	4.0200-05	4.0200-03	4.9800-01
-5.0	1.6400-11	1.2500-09	4.9700-01	2.5500-05	6.3300-03	4.9700-01
-4.8	6.3400-11	3.0900-09	4.9500-01	1.6200-05	9.9000-03	4.9500-01
-4.6	2.4200-10	7.5400-09	4.9200-01	1.0300-05	1.5400-02	4.9200-01
-4.4	9.0500-10	1.8100-08	4.8800-01	6.5800-06	2.3800-02	4.8800-01
-4.2	3.2900-09	4.2700-08	4.8200-01	4.2200-06	3.6200-02	4.8200-01
-4.0	1.1500-08	9.7600-08	4.7300-01	2.7200-06	5.4100-02	4.7300-01
-3.8	3.7900-08	2.1500-07	4.6000-01	1.7700-06	7.9200-02	4.6000-01
-3.6	1.1800-07	4.5300-07	4.4400-01	1.1600-06	1.1300-01	4.4400-01
-3.4	3.4100-07	9.0700-07	4.2200-01	7.6900-07	1.5500-01	4.2200-01
-3.2	9.1800-07	1.7200-06	3.9700-01	5.1200-07	2.0600-01	3.9700-01
-3.0	2.2900-06	3.0900-06	3.6700-01	3.4300-07	2.6600-01	3.6700-01
-2.8	5.3600-06	5.2900-06	3.3500-01	2.3100-07	3.3000-01	3.3500-01
-2.6	1.1800-05	8.6500-06	3.0100-01	1.5500-07	3.9900-01	3.0100-01
-2.4	2.4400-05	1.3600-05	2.6600-01	1.0500-07	4.6800-01	2.6600-01
-2.2	4.8500-05	2.0500-05	2.3200-01	7.0400-08	5.3500-01	2.3200-01
-2.0	9.2500-05	3.0100-05	2.0000-01	4.7200-08	5.9900-01	2.0000-01
-1.8	1.7000-04	4.3100-05	1.7100-01	3.1600-08	6.5800-01	1.7100-01
-1.6	3.0600-04	6.0400-05	1.4400-01	2.1100-08	7.1100-01	1.4400-01
-1.4	5.3500-04	8.3200-05	1.2100-01	1.4100-08	7.5800-01	1.2100-01
-1.2	9.1900-04	1.1300-04	1.0000-01	9.4100-09	7.9800-01	1.0000-01
-1.0	1.5500-03	1.5100-04	8.3000-02	6.2800-09	8.3200-01	8.3100-02
-.8	2.5900-03	2.0000-04	6.8300-02	4.1900-09	8.6100-01	6.8500-02
-.6	4.2600-03	2.6300-04	5.5900-02	2.8100-09	8.8300-01	5.6200-02
-.4	6.9300-03	3.4300-04	4.5700-02	1.8900-09	9.0100-01	4.6100-02
-.2	1.1100-02	4.4400-04	3.7300-02	1.2800-09	9.1300-01	3.7700-02
.0	1.7700-02	5.6900-04	3.0400-02	8.6800-10	9.2000-01	3.0900-02
.2	2.7700-02	7.2400-04	2.4700-02	5.9400-10	9.2100-01	2.5400-02
.4	4.2600-02	9.0800-04	2.0000-02	4.1100-10	9.1600-01	2.0900-02
.6	6.4000-02	1.1700-03	1.6200-02	2.8600-10	9.0100-01	1.7300-02
.8	9.3700-02	1.3600-03	1.3100-02	2.0200-10	8.7700-01	1.4500-02
1.0	1.3300-01	1.6200-03	1.0500-02	1.4400-10	8.4300-01	1.2200-02
1.2	1.8200-01	1.8800-03	8.4400-03	1.0400-10	7.9700-01	1.0300-02
1.4	2.4100-01	2.1300-03	6.7300-03	7.5600-11	7.4200-01	8.8600-03
1.6	3.0800-01	2.3800-03	5.3500-03	5.6200-11	6.7700-01	7.7300-03
1.8	3.8200-01	2.6500-03	4.2400-03	4.3000-11	6.0500-01	6.8900-03
2.0	4.6000-01	2.9600-03	3.3900-03	3.4500-11	5.2700-01	6.3500-03
2.2	5.4000-01	3.4400-03	2.7500-03	3.0400-11	4.4700-01	6.1900-03

T= 13300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0094+00	4.0531+01	4.4540+01	1.2849+02	-4.7095+00	4.0097+00
-6.8	4.0055+00	4.0430+01	4.4435+01	1.2654+02	-4.5099+00	4.0059+00
-6.6	4.0028+00	4.0363+01	4.4366+01	1.2463+02	-4.3102+00	4.0034+00
-6.4	4.0008+00	4.0318+01	4.4318+01	1.2275+02	-4.1104+00	4.0015+00
-6.2	3.9991+00	4.0284+01	4.4283+01	1.2087+02	-3.9106+00	4.0000+00
-6.0	3.9974+00	4.0254+01	4.4251+01	1.1900+02	-3.7108+00	3.9984+00
-5.8	3.9952+00	4.0223+01	4.4218+01	1.1713+02	-3.5110+00	3.9966+00
-5.6	3.9923+00	4.0183+01	4.4175+01	1.1525+02	-3.3113+00	3.9940+00
-5.4	3.9879+00	4.0126+01	4.4114+01	1.1335+02	-3.1118+00	3.9901+00
-5.2	3.9814+00	4.0041+01	4.4023+01	1.1143+02	-2.9125+00	3.9842+00
-5.0	3.9716+00	3.9912+01	4.3884+01	1.0947+02	-2.7136+00	3.9750+00
-4.8	3.9566+00	3.9715+01	4.3672+01	1.0745+02	-2.5152+00	3.9609+00
-4.6	3.9341+00	3.9416+01	4.3350+01	1.0533+02	-2.3177+00	3.9393+00
-4.4	3.9007+00	3.8970+01	4.2871+01	1.0308+02	-2.1214+00	3.9072+00
-4.2	3.8525+00	3.8322+01	4.2174+01	1.0065+02	-1.9268+00	3.8603+00
-4.0	3.7853+00	3.7414+01	4.1199+01	9.7982+01	-1.7344+00	3.7946+00
-3.8	3.6957+00	3.6199+01	3.9895+01	9.5044+01	-1.5448+00	3.7066+00
-3.6	3.5830+00	3.4665+01	3.8248+01	9.1833+01	-1.3583+00	3.5953+00
-3.4	3.4494+00	3.2843+01	3.6293+01	8.8392+01	-1.1748+00	3.4631+00
-3.2	3.3010+00	3.0813+01	3.4114+01	8.4807+01	-9.9391-01	3.3156+00
-3.0	3.1454+00	2.8683+01	3.1828+01	8.1191+01	-8.1487-01	3.1607+00
-2.8	2.9910+00	2.6562+01	2.9553+01	7.7658+01	-6.3674-01	3.0065+00
-2.6	2.8443+00	2.4545+01	2.7389+01	7.4297+01	-4.5857-01	2.8597+00
-2.4	2.7100+00	2.2695+01	2.5405+01	7.1169+01	-2.7958-01	2.7251+00
-2.2	2.5907+00	2.1049+01	2.3639+01	6.8303+01	-9.9134-02	2.6051+00
-2.0	2.4871+00	1.9617+01	2.2104+01	6.5702+01	8.3136-02	2.5007+00
-1.8	2.3987+00	1.8393+01	2.0792+01	6.3355+01	2.6742-01	2.4115+00
-1.6	2.3243+00	1.7363+01	1.9687+01	6.1237+01	4.5374-01	2.3362+00
-1.4	2.2622+00	1.6503+01	1.8765+01	5.9322+01	6.4199-01	2.2733+00
-1.2	2.2108+00	1.5790+01	1.8001+01	5.7579+01	8.3200-01	2.2209+00
-1.0	2.1681+00	1.5200+01	1.7368+01	5.5981+01	1.0235+00	2.1772+00
-.8	2.1323+00	1.4709+01	1.6841+01	5.4500+01	1.2163+00	2.1406+00
-.6	2.1018+00	1.4295+01	1.6396+01	5.3111+01	1.4100+00	2.1090+00
-.4	2.0745+00	1.3935+01	1.6010+01	5.1790+01	1.6044+00	2.0807+00
-.2	2.0488+00	1.3608+01	1.5657+01	5.0514+01	1.7989+00	2.0537+00
.0	2.0222+00	1.3289+01	1.5311+01	4.9257+01	1.9933+00	2.0256+00
.2	1.9926+00	1.2951+01	1.4943+01	4.7994+01	2.1869+00	1.9940+00
.4	1.9574+00	1.2567+01	1.4524+01	4.6700+01	2.3791+00	1.9559+00
.6	1.9143+00	1.2112+01	1.4026+01	4.5353+01	2.5695+00	1.9087+00
.8	1.8623+00	1.1568+01	1.3431+01	4.3940+01	2.7575+00	1.8509+00
1.0	1.8021+00	1.0935+01	1.2737+01	4.2463+01	2.9432+00	1.7822+00
1.2	1.7366+00	1.0226+01	1.1962+01	4.0938+01	3.1271+00	1.7044+00
1.4	1.6709+00	9.4701+00	1.1141+01	3.9398+01	3.3104+00	1.6208+00
1.6	1.6116+00	8.7034+00	1.0315+01	3.7876+01	3.4947+00	1.5354+00
1.8	1.5664+00	7.9585+00	9.5249+00	3.6400+01	3.6824+00	1.4520+00
2.0	1.5442+00	7.2607+00	8.8049+00	3.4987+01	3.8762+00	1.3732+00
2.2	1.5561+00	6.6274+00	8.1835+00	3.3642+01	4.0795+00	1.3008+00

T= 13400

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.3100-17	1.1000-13	4.9500-01	3.0300-03	5.8300-05	5.0100-01
-6.8	5.2300-17	2.7800-13	4.9700-01	1.9200-03	9.2400-05	5.0100-01
-6.6	2.0800-16	6.9900-13	4.9800-01	1.2200-03	1.4700-04	5.0100-01
-6.4	8.2800-16	1.7600-12	4.9900-01	7.7000-04	2.3200-04	5.0000-01
-6.2	3.2900-15	4.4100-12	4.9900-01	4.8700-04	3.6800-04	5.0000-01
-6.0	1.3100-14	1.1100-11	4.9900-01	3.0800-04	5.8300-04	5.0000-01
-5.8	5.1900-14	2.7800-11	4.9900-01	1.9400-04	9.2200-04	5.0000-01
-5.6	2.0600-13	6.9500-11	4.9900-01	1.2300-04	1.4600-03	4.9900-01
-5.4	8.1300-13	1.7400-10	4.9900-01	7.7700-05	2.3000-03	4.9900-01
-5.2	3.2000-12	4.3300-10	4.9800-01	4.9200-05	3.6300-03	4.9800-01
-5.0	1.2500-11	1.0800-09	4.9700-01	3.1200-05	5.7200-03	4.9700-01
-4.8	4.8600-11	2.6600-09	4.9500-01	1.9800-05	8.9600-03	4.9600-01
-4.6	1.8600-10	6.4900-09	4.9300-01	1.2600-05	1.4000-02	4.9300-01
-4.4	7.0000-10	1.5700-08	4.8900-01	8.0300-06	2.1600-02	4.8900-01
-4.2	2.5600-09	3.7100-08	4.8300-01	5.1500-06	3.3000-02	4.8400-01
-4.0	9.0200-09	8.5400-08	4.7500-01	3.3200-06	4.9600-02	4.7500-01
-3.8	3.0200-08	1.9000-07	4.6400-01	2.1600-06	7.2900-02	4.6400-01
-3.6	9.5300-08	4.0400-07	4.4800-01	1.4100-06	1.0400-01	4.4800-01
-3.4	2.8100-07	8.1900-07	4.2800-01	9.3300-07	1.4500-01	4.2800-01
-3.2	7.6700-07	1.5700-06	4.0300-01	6.2100-07	1.9400-01	4.0300-01
-3.0	1.9500-06	2.8600-06	3.7400-01	4.1600-07	2.5200-01	3.7400-01
-2.8	4.6200-06	4.9500-06	3.4200-01	2.8000-07	3.1500-01	3.4200-01
-2.6	1.0300-05	8.1700-06	3.0800-01	1.8800-07	3.8300-01	3.0800-01
-2.4	2.1600-05	1.2900-05	2.7400-01	1.2700-07	4.5200-01	2.7400-01
-2.2	4.3200-05	1.9700-05	2.4000-01	8.5400-08	5.2000-01	2.4000-01
-2.0	8.3100-05	2.9100-05	2.0700-01	5.7400-08	5.8500-01	2.0800-01
-1.8	1.5400-04	4.1900-05	1.7700-01	3.8500-08	6.4500-01	1.7700-01
-1.6	2.7800-04	5.9000-05	1.5000-01	2.5800-08	6.9900-01	1.5000-01
-1.4	4.9000-04	8.1600-05	1.2600-01	1.7200-08	7.4700-01	1.2600-01
-1.2	8.4500-04	1.1100-04	1.0500-01	1.1500-08	7.8900-01	1.0500-01
-1.0	1.4300-03	1.4900-04	8.6800-02	7.6900-09	8.2500-01	8.7000-02
-.8	2.3900-03	1.9800-04	7.1500-02	5.1400-09	8.5400-01	7.1700-02
-.6	3.9500-03	2.6100-04	5.8700-02	3.4500-09	8.7800-01	5.9000-02
-.4	6.4400-03	3.4100-04	4.8000-02	2.3200-09	8.9700-01	4.8400-02
-.2	1.0400-02	4.4200-04	3.9200-02	1.5700-09	9.1000-01	3.9700-02
.0	1.6500-02	5.6800-04	3.2000-02	1.0700-09	9.1800-01	3.2500-02
.2	2.6000-02	7.2400-04	2.6000-02	7.3400-10	9.2100-01	2.6700-02
.4	4.0000-02	9.1200-04	2.1100-02	5.0800-10	9.1600-01	2.2100-02
.6	6.0400-02	1.1300-03	1.7100-02	3.5500-10	9.0300-01	1.8300-02
.8	8.8700-02	1.3800-03	1.3900-02	2.5100-10	8.8100-01	1.5200-02
1.0	1.2600-01	1.6400-03	1.1200-02	1.7900-10	8.4800-01	1.2800-02
1.2	1.7400-01	1.9200-03	8.9800-03	1.3000-10	8.0400-01	1.0900-02
1.4	2.3200-01	2.1900-03	7.1800-03	9.5400-11	7.5000-01	9.3700-03
1.6	2.9800-01	2.4700-03	5.7200-03	7.1500-11	6.8600-01	8.1900-03
1.8	3.7100-01	2.7600-03	4.5600-03	5.5100-11	6.1400-01	7.3100-03
2.0	4.4900-01	3.1100-03	3.6500-03	4.4800-11	5.3700-01	6.7600-03
2.2	5.3000-01	3.6300-03	2.9900-03	4.0300-11	4.5700-01	6.6200-03

T= 13400

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0116+00	4.0338+01	4.4350+01	1.2860+02	-4.7060+00	4.0119+00
-6.8	4.0069+00	4.0216+01	4.4223+01	1.2663+02	-4.5065+00	4.0074+00
-6.6	4.0038+00	4.0137+01	4.4141+01	1.2471+02	-4.3068+00	4.0043+00
-6.4	4.0015+00	4.0083+01	4.4085+01	1.2281+02	-4.1071+00	4.0022+00
-6.2	3.9996+00	4.0045+01	4.4045+01	1.2093+02	-3.9073+00	4.0005+00
-6.0	3.9978+00	4.0013+01	4.4011+01	1.1906+02	-3.7075+00	3.9989+00
-5.8	3.9958+00	3.9982+01	4.3977+01	1.1719+02	-3.5077+00	3.9971+00
-5.6	3.9930+00	3.9944+01	4.3937+01	1.1531+02	-3.3080+00	3.9947+00
-5.4	3.9890+00	3.9891+01	4.3880+01	1.1342+02	-3.1084+00	3.9911+00
-5.2	3.9830+00	3.9815+01	4.3798+01	1.1151+02	-2.9091+00	3.9857+00
-5.0	3.9740+00	3.9698+01	4.3672+01	1.0956+02	-2.7101+00	3.9774+00
-4.8	3.9604+00	3.9519+01	4.3480+01	1.0755+02	-2.5116+00	3.9646+00
-4.6	3.9398+00	3.9248+01	4.3188+01	1.0546+02	-2.3138+00	3.9450+00
-4.4	3.9091+00	3.8842+01	4.2752+01	1.0325+02	-2.1172+00	3.9155+00
-4.2	3.8645+00	3.8249+01	4.2113+01	1.0086+02	-1.9222+00	3.8723+00
-4.0	3.8018+00	3.7409+01	4.1211+01	9.8258+01	-1.7293+00	3.8111+00
-3.8	3.7174+00	3.6274+01	3.9992+01	9.5391+01	-1.5391+00	3.7284+00
-3.6	3.6098+00	3.4822+01	3.8431+01	9.2250+01	-1.3518+00	3.6223+00
-3.4	3.4805+00	3.3072+01	3.6553+01	8.8867+01	-1.1677+00	3.4944+00
-3.2	3.3348+00	3.1095+01	3.4430+01	8.5320+01	-9.8623-01	3.3498+00
-3.0	3.1802+00	2.8993+01	3.2173+01	8.1718+01	-8.0684-01	3.1960+00
-2.8	3.0249+00	2.6878+01	2.9903+01	7.8174+01	-6.2859-01	3.0410+00
-2.6	2.8760+00	2.4846+01	2.7722+01	7.4784+01	-4.5050-01	2.8922+00
-2.4	2.7388+00	2.2969+01	2.5708+01	7.1614+01	-2.7174-01	2.7546+00
-2.2	2.6160+00	2.1288+01	2.3904+01	6.8701+01	-9.1654-02	2.6312+00
-2.0	2.5089+00	1.9818+01	2.2327+01	6.6052+01	9.0191-02	2.5234+00
-1.8	2.4172+00	1.8559+01	2.0976+01	6.3658+01	2.7402-01	2.4308+00
-1.6	2.3398+00	1.7494+01	1.9834+01	6.1499+01	4.5989-01	2.3525+00
-1.4	2.2752+00	1.6604+01	1.8879+01	5.9547+01	6.4772-01	2.2869+00
-1.2	2.2215+00	1.5865+01	1.8087+01	5.7773+01	8.3736-01	2.2323+00
-1.0	2.1770+00	1.5253+01	1.7430+01	5.6148+01	1.0286+00	2.1868+00
-.8	2.1398+00	1.4744+01	1.6884+01	5.4646+01	1.2211+00	2.1486+00
-.6	2.1081+00	1.4317+01	1.6425+01	5.3240+01	1.4146+00	2.1159+00
-.4	2.0801+00	1.3948+01	1.6028+01	5.1907+01	1.6088+00	2.0868+00
-.2	2.0540+00	1.3615+01	1.5669+01	5.0623+01	1.8033+00	2.0594+00
.0	2.0275+00	1.3295+01	1.5322+01	4.9362+01	1.9977+00	2.0314+00
.2	1.9984+00	1.2961+01	1.4959+01	4.8101+01	2.1914+00	2.0001+00
.4	1.9641+00	1.2585+01	1.4549+01	4.6813+01	2.3839+00	1.9629+00
.6	1.9223+00	1.2143+01	1.4065+01	4.5476+01	2.5745+00	1.9171+00
.8	1.8718+00	1.1615+01	1.3487+01	4.4074+01	2.7630+00	1.8607+00
1.0	1.8130+00	1.0997+01	1.2810+01	4.2607+01	2.9491+00	1.7933+00
1.2	1.7486+00	1.0301+01	1.2049+01	4.1091+01	3.1334+00	1.7164+00
1.4	1.6834+00	9.5537+00	1.1237+01	3.9553+01	3.3169+00	1.6332+00
1.6	1.6240+00	8.7900+00	1.0414+01	3.8029+01	3.5013+00	1.5476+00
1.8	1.5783+00	8.0434+00	9.6217+00	3.6545+01	3.6889+00	1.4634+00
2.0	1.5552+00	7.3404+00	8.8956+00	3.5122+01	3.8825+00	1.3834+00
2.2	1.5660+00	6.6998+00	8.2657+00	3.3764+01	4.0855+00	1.3096+00

I= 13500

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.0000-17	9.4200-14	4.9400-01	3.6800-03	5.2600-05	5.0200-01
-6.8	4.0000-17	2.3700-13	4.9600-01	2.3400-03	8.3500-05	5.0100-01
-6.6	1.5900-16	5.9800-13	4.9800-01	1.4800-03	1.3200-04	5.0100-01
-6.4	6.3400-16	1.5000-12	4.9800-01	9.3900-04	2.1000-04	5.0000-01
-6.2	2.5200-15	3.7800-12	4.9900-01	5.9400-04	3.3300-04	5.0000-01
-6.0	1.0000-14	9.4800-12	4.9900-01	3.7600-04	5.2700-04	5.0000-01
-5.8	3.9800-14	2.3800-11	4.9900-01	2.3700-04	8.3400-04	5.0000-01
-5.6	1.5800-13	5.9600-11	4.9900-01	1.5000-04	1.3200-03	4.9900-01
-5.4	6.2300-13	1.4900-10	4.9900-01	9.4900-05	2.0800-03	4.9900-01
-5.2	2.4600-12	3.7200-10	4.9800-01	6.0100-05	3.2900-03	4.9800-01
-5.0	9.6300-12	9.2400-10	4.9700-01	3.8100-05	5.1800-03	4.9700-01
-4.8	3.7500-11	2.2800-09	4.9600-01	2.4100-05	8.1200-03	4.9600-01
-4.6	1.4400-10	5.6000-09	4.9400-01	1.5400-05	1.2700-02	4.9400-01
-4.4	5.4400-10	1.3600-08	4.9000-01	9.7900-06	1.9600-02	4.9000-01
-4.2	2.0000-09	3.2200-08	4.8500-01	6.2700-06	3.0100-02	4.8500-01
-4.0	7.1100-09	7.4700-08	4.7700-01	4.0400-06	4.5400-02	4.7700-01
-3.8	2.4100-08	1.6800-07	4.6600-01	2.6200-06	6.7100-02	4.6600-01
-3.6	7.7100-08	3.6000-07	4.5200-01	1.7100-06	9.6600-02	4.5200-01
-3.4	2.3100-07	7.3800-07	4.3300-01	1.1300-06	1.3500-01	4.3300-01
-3.2	6.4100-07	1.4300-06	4.0900-01	7.5100-07	1.8200-01	4.0900-01
-3.0	1.6500-06	2.6400-06	3.8100-01	5.0200-07	2.3800-01	3.8100-01
-2.8	3.9800-06	4.6200-06	3.5000-01	3.3800-07	3.0100-01	3.5000-01
-2.6	8.9600-06	7.7000-06	3.1600-01	2.2800-07	3.6800-01	3.1600-01
-2.4	1.9100-05	1.2300-05	2.8200-01	1.5400-07	4.3700-01	2.8200-01
-2.2	3.8600-05	1.8900-05	2.4800-01	1.0300-07	5.0500-01	2.4800-01
-2.0	7.4800-05	2.8100-05	2.1500-01	6.9600-08	5.7100-01	2.1500-01
-1.8	1.4000-04	4.0700-05	1.8400-01	4.6700-08	6.3200-01	1.8400-01
-1.6	2.5400-04	5.7600-05	1.5600-01	3.1300-08	6.8700-01	1.5600-01
-1.4	4.4900-04	7.9900-05	1.3100-01	2.1000-08	7.3700-01	1.3100-01
-1.2	7.7800-04	1.0900-04	1.1000-01	1.4000-08	7.8000-01	1.1000-01
-1.0	1.3200-03	1.4700-04	9.0800-02	9.3900-09	8.1700-01	9.0900-02
-.8	2.2200-03	1.9600-04	7.4900-02	6.2900-09	8.4800-01	7.5100-02
-.6	3.6700-03	2.5800-04	6.1600-02	4.2200-09	8.7300-01	6.1800-02
-.4	6.0000-03	3.3800-04	5.0400-02	2.8500-09	8.9200-01	5.0800-02
-.2	9.6900-03	4.4000-04	4.1200-02	1.9300-09	9.0700-01	4.1700-02
.0	1.5500-02	5.6700-04	3.3600-02	1.3200-09	9.1600-01	3.4200-02
.2	2.4300-02	7.2400-04	2.7400-02	9.0500-10	9.1900-01	2.8100-02
.4	3.7600-02	9.1400-04	2.2300-02	6.2800-10	9.1600-01	2.3200-02
.6	5.7000-02	1.1400-03	1.8100-02	4.4000-10	9.0400-01	1.9200-02
.8	8.4200-02	1.3900-03	1.4700-02	3.1200-10	8.8400-01	1.6100-02
1.0	1.2100-01	1.6700-03	1.1800-02	2.2400-10	8.5200-01	1.3500-02
1.2	1.6700-01	1.9600-03	9.5300-03	1.6300-10	8.1000-01	1.1500-02
1.4	2.2300-01	2.2500-03	7.6400-03	1.2000-10	7.5700-01	9.9000-03
1.6	2.8900-01	2.5500-03	6.1100-03	9.0600-11	6.9400-01	8.6600-03
1.8	3.6100-01	2.8700-03	4.8900-03	7.0500-11	6.2300-01	7.7500-03
2.0	4.3900-01	3.2500-03	3.9400-03	5.8100-11	5.4600-01	7.1900-03
2.2	5.2000-01	3.8300-03	3.2400-03	5.3200-11	4.6600-01	7.0700-03



T= 13500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0143+00	4.0161+01	4.4175+01	1.2872+02	-4.7025+00	4.0146+00
-6.8	4.0086+00	4.0014+01	4.4022+01	1.2673+02	-4.5031+00	4.0091+00
-6.6	4.0049+00	3.9919+01	4.3924+01	1.2479+02	-4.3035+00	4.0054+00
-6.4	4.0023+00	3.9856+01	4.3858+01	1.2288+02	-4.1038+00	4.0029+00
-6.2	4.0002+00	3.9811+01	4.3812+01	1.2100+02	-3.9040+00	4.0011+00
-6.0	3.9984+00	3.9777+01	4.3775+01	1.1912+02	-3.7042+00	3.9994+00
-5.8	3.9963+00	3.9745+01	4.3741+01	1.1725+02	-3.5044+00	3.9976+00
-5.6	3.9937+00	3.9708+01	4.3702+01	1.1537+02	-3.3047+00	3.9954+00
-5.4	3.9900+00	3.9659+01	4.3649+01	1.1348+02	-3.1051+00	3.9921+00
-5.2	3.9845+00	3.9589+01	4.3573+01	1.1158+02	-2.9057+00	3.9872+00
-5.0	3.9762+00	3.9483+01	4.3459+01	1.0964+02	-2.7066+00	3.9796+00
-4.8	3.9637+00	3.9322+01	4.3285+01	1.0765+02	-2.5080+00	3.9679+00
-4.6	3.9448+00	3.9076+01	4.3021+01	1.0558+02	-2.3100+00	3.9500+00
-4.4	3.9167+00	3.8706+01	4.2623+01	1.0340+02	-2.1131+00	3.9230+00
-4.2	3.8755+00	3.8162+01	4.2038+01	1.0106+02	-1.9177+00	3.8832+00
-4.0	3.8171+00	3.7387+01	4.1205+01	9.8514+01	-1.7243+00	3.8264+00
-3.8	3.7377+00	3.6329+01	4.0066+01	9.5715+01	-1.5335+00	3.7487+00
-3.6	3.6351+00	3.4956+01	3.8591+01	9.2644+01	-1.3455+00	3.6478+00
-3.4	3.5103+00	3.3280+01	3.6791+01	8.9322+01	-1.1607+00	3.5245+00
-3.2	3.3676+00	3.1360+01	3.4728+01	8.5818+01	-9.7874-01	3.3831+00
-3.0	3.2144+00	2.9292+01	3.2506+01	8.2234+01	-7.9897-01	3.2307+00
-2.8	3.0586+00	2.7187+01	3.0245+01	7.8683+01	-6.2054-01	3.0754+00
-2.6	2.9079+00	2.5145+01	2.8053+01	7.5268+01	-4.4249-01	2.9247+00
-2.4	2.7678+00	2.3243+01	2.6011+01	7.2060+01	-2.6393-01	2.7844+00
-2.2	2.6418+00	2.1529+01	2.4171+01	6.9101+01	-8.4173-02	2.6578+00
-2.0	2.5312+00	2.0024+01	2.2555+01	6.6405+01	9.7263-02	2.5465+00
-1.8	2.4362+00	1.8728+01	2.1164+01	6.3966+01	2.8065-01	2.4506+00
-1.6	2.3558+00	1.7629+01	1.9985+01	6.1765+01	4.6608-01	2.3692+00
-1.4	2.2885+00	1.6709+01	1.8998+01	5.9776+01	6.5349-01	2.3009+00
-1.2	2.2326+00	1.5944+01	1.8176+01	5.7970+01	8.4274-01	2.2440+00
-1.0	2.1861+00	1.5309+01	1.7496+01	5.6318+01	1.0336+00	2.1965+00
-.8	2.1474+00	1.4783+01	1.6930+01	5.4794+01	1.2258+00	2.1568+00
-.6	2.1145+00	1.4341+01	1.6456+01	5.3371+01	1.4191+00	2.1229+00
-.4	2.0858+00	1.3962+01	1.6048+01	5.2025+01	1.6132+00	2.0930+00
-.2	2.0592+00	1.3623+01	1.5682+01	5.0732+01	1.8076+00	2.0651+00
.0	2.0327+00	1.3301+01	1.5334+01	4.9467+01	2.0020+00	2.0370+00
.2	2.0040+00	1.2969+01	1.4973+01	4.8206+01	2.1958+00	2.0061+00
.4	1.9705+00	1.2601+01	1.4572+01	4.6923+01	2.3885+00	1.9697+00
.6	1.9299+00	1.2171+01	1.4101+01	4.5594+01	2.5795+00	1.9251+00
.8	1.8809+00	1.1658+01	1.3539+01	4.4203+01	2.7683+00	1.8700+00
1.0	1.8235+00	1.1055+01	1.2878+01	4.2747+01	2.9548+00	1.8040+00
1.2	1.7601+00	1.0372+01	1.2132+01	4.1238+01	3.1395+00	1.7281+00
1.4	1.6955+00	9.6330+00	1.1329+01	3.9704+01	3.3232+00	1.6453+00
1.6	1.6362+00	8.8731+00	1.0509+01	3.8177+01	3.5078+00	1.5595+00
1.8	1.5900+00	8.1255+00	9.7155+00	3.6687+01	3.6953+00	1.4745+00
2.0	1.5661+00	7.4180+00	8.9840+00	3.5254+01	3.8887+00	1.3934+00
2.2	1.5757+00	6.7707+00	8.3464+00	3.3885+01	4.0914+00	1.3184+00

T= 13600

LOG $\phi$	N2	N2+	N+	N++	N	E
-7.0	7.7000-18	8.0700-14	4.9300-01	4.4700-03	4.7600-05	5.0200-01
-6.8	3.0700-17	2.0400-13	4.9600-01	2.8400-03	7.5500-05	5.0100-01
-6.6	1.2200-16	5.1300-13	4.9700-01	1.8000-03	1.2000-04	5.0100-01
-6.4	4.8700-16	1.2900-12	4.9800-01	1.1400-03	1.9000-04	5.0000-01
-6.2	1.9400-15	3.2400-12	4.9900-01	7.2300-04	3.0100-04	5.0000-01
-6.0	7.6900-15	8.1400-12	4.9900-01	4.5700-04	4.7700-04	5.0000-01
-5.8	3.0500-14	2.0400-11	4.9900-01	2.8900-04	7.5500-04	5.0000-01
-5.6	1.2100-13	5.1200-11	4.9900-01	1.8300-04	1.1900-03	4.9900-01
-5.4	4.7900-13	1.2800-10	4.9900-01	1.1600-04	1.8900-03	4.9900-01
-5.2	1.8900-12	3.2000-10	4.9800-01	7.3100-05	2.9800-03	4.9900-01
-5.0	7.4200-12	7.9500-10	4.9800-01	4.6300-05	4.6900-03	4.9800-01
-4.8	2.8900-11	1.9700-09	4.9600-01	2.9400-05	7.3700-03	4.9600-01
-4.6	1.1100-10	4.8400-09	4.9400-01	1.8700-05	1.1500-02	4.9400-01
-4.4	4.2300-10	1.1700-08	4.9100-01	1.1900-05	1.7900-02	4.9100-01
-4.2	1.5700-09	2.8000-08	4.8600-01	7.6200-06	2.7400-02	4.8600-01
-4.0	5.6100-09	6.5400-08	4.7900-01	4.9000-06	4.1600-02	4.7900-01
-3.8	1.9200-08	1.4800-07	4.6900-01	3.1700-06	6.1700-02	4.6900-01
-3.6	6.2400-08	3.2100-07	4.5500-01	2.0700-06	8.9400-02	4.5500-01
-3.4	1.8900-07	6.6500-07	4.3700-01	1.3600-06	1.2600-01	4.3700-01
-3.2	5.3400-07	1.3100-06	4.1400-01	9.0600-07	1.7100-01	4.1400-01
-3.0	1.4000-06	2.4400-06	3.8700-01	6.0600-07	2.2500-01	3.8700-01
-2.8	3.4200-06	4.3100-06	3.5700-01	4.0700-07	2.8600-01	3.5700-01
-2.6	7.8100-06	7.2500-06	3.2400-01	2.7400-07	3.5300-01	3.2400-01
-2.4	1.6800-05	1.1700-05	2.8900-01	1.8500-07	4.2100-01	2.8900-01
-2.2	3.4400-05	1.8100-05	2.5500-01	1.2500-07	4.9000-01	2.5500-01
-2.0	6.7300-05	2.7100-05	2.2200-01	8.4100-08	5.5600-01	2.2200-01
-1.8	1.2700-04	3.9500-05	1.9100-01	5.6600-08	6.1800-01	1.9100-01
-1.6	2.3100-04	5.6100-05	1.6200-01	3.8000-08	6.7500-01	1.6200-01
-1.4	4.1100-04	7.8200-05	1.3700-01	2.5500-08	7.2600-01	1.3700-01
-1.2	7.1500-04	1.0700-04	1.1400-01	1.7100-08	7.7100-01	1.1400-01
-1.0	1.2200-03	1.4500-04	9.4900-02	1.1400-08	8.0900-01	9.5000-02
-.8	2.0500-03	1.9300-04	7.8400-02	7.6700-09	8.4100-01	7.8600-02
-.6	3.4100-03	2.5600-04	6.4500-02	5.1600-09	8.6700-01	6.4700-02
-.4	5.5800-03	3.3600-04	5.2900-02	3.4800-09	8.8800-01	5.3200-02
-.2	9.0400-03	4.3700-04	4.3300-02	2.3600-09	9.0400-01	4.3700-02
.0	1.4500-02	5.6500-04	3.5300-02	1.6100-09	9.1400-01	3.5900-02
.2	2.2800-02	7.2400-04	2.8800-02	1.1100-09	9.1800-01	2.9600-02
.4	3.5400-02	9.1700-04	2.3500-02	7.7300-10	9.1600-01	2.4400-02
.6	5.3800-02	1.1500-03	1.9100-02	5.4300-10	9.0600-01	2.0200-02
.8	7.9800-02	1.4100-03	1.5500-02	3.8600-10	8.8600-01	1.6900-02
1.0	1.1500-01	1.7000-03	1.2500-02	2.7800-10	8.5700-01	1.4200-02
1.2	1.6000-01	2.0000-03	1.0100-02	2.0300-10	8.1600-01	1.2100-02
1.4	2.1500-01	2.3100-03	8.1300-03	1.5100-10	7.6400-01	1.0400-02
1.6	2.7900-01	2.6300-03	6.5300-03	1.1400-10	7.0200-01	9.1600-03
1.8	3.5100-01	2.9800-03	5.2400-03	9.0000-11	6.3200-01	8.2200-03
2.0	4.2900-01	3.4000-03	4.2400-03	7.5100-11	5.5600-01	7.6400-03
2.2	5.1000-01	4.0400-03	3.5100-03	7.0200-11	4.7500-01	7.5500-03

T= 13600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0174+00	3.9999+01	4.4017+01	1.2886+02	-4.6989+00	4.0178+00
-6.8	4.0107+00	3.9823+01	4.3834+01	1.2683+02	-4.4996+00	4.0111+00
-6.6	4.0062+00	3.9709+01	4.3716+01	1.2487+02	-4.3001+00	4.0068+00
-6.4	4.0032+00	3.9635+01	4.3638+01	1.2295+02	-4.1005+00	4.0038+00
-6.2	4.0009+00	3.9583+01	4.3584+01	1.2106+02	-3.9007+00	4.0017+00
-6.0	3.9989+00	3.9545+01	4.3544+01	1.1918+02	-3.7009+00	3.9999+00
-5.8	3.9968+00	3.9511+01	4.3508+01	1.1731+02	-3.5011+00	3.9982+00
-5.6	3.9943+00	3.9475+01	4.3470+01	1.1543+02	-3.3014+00	3.9960+00
-5.4	3.9909+00	3.9430+01	4.3421+01	1.1355+02	-3.1018+00	3.9930+00
-5.2	3.9858+00	3.9365+01	4.3351+01	1.1164+02	-2.9023+00	3.9884+00
-5.0	3.9782+00	3.9269+01	4.3247+01	1.0971+02	-2.7032+00	3.9815+00
-4.8	3.9668+00	3.9122+01	4.3089+01	1.0774+02	-2.5044+00	3.9709+00
-4.6	3.9494+00	3.8899+01	4.2848+01	1.0569+02	-2.3063+00	3.9546+00
-4.4	3.9235+00	3.8562+01	4.2486+01	1.0354+02	-2.1092+00	3.9298+00
-4.2	3.8855+00	3.8064+01	4.1950+01	1.0124+02	-1.9134+00	3.8932+00
-4.0	3.8311+00	3.7350+01	4.1181+01	9.8752+01	-1.7195+00	3.8404+00
-3.8	3.7565+00	3.6363+01	4.0120+01	9.6018+01	-1.5281+00	3.7676+00
-3.6	3.6590+00	3.5069+01	3.8728+01	9.3016+01	-1.3395+00	3.6718+00
-3.4	3.5388+00	3.3468+01	3.7007+01	8.9756+01	-1.1540+00	3.5532+00
-3.2	3.3995+00	3.1608+01	3.5008+01	8.6298+01	-9.7145-01	3.4153+00
-3.0	3.2479+00	2.9578+01	3.2826+01	8.2737+01	-7.9126-01	3.2647+00
-2.8	3.0921+00	2.7487+01	3.0580+01	7.9186+01	-6.1261-01	3.1095+00
-2.6	2.9398+00	2.5440+01	2.8380+01	7.5750+01	-4.3454-01	2.9573+00
-2.4	2.7971+00	2.3517+01	2.6314+01	7.2507+01	-2.5615-01	2.8144+00
-2.2	2.6679+00	2.1773+01	2.4440+01	6.9504+01	-7.6698-02	2.6847+00
-2.0	2.5539+00	2.0232+01	2.2786+01	6.6762+01	1.0435-01	2.5700+00
-1.8	2.4557+00	1.8901+01	2.1356+01	6.4278+01	2.8731-01	2.4708+00
-1.6	2.3722+00	1.7769+01	2.0141+01	6.2035+01	4.7229-01	2.3864+00
-1.4	2.3022+00	1.6818+01	1.9120+01	6.0008+01	6.5928-01	2.3154+00
-1.2	2.2439+00	1.6026+01	1.8270+01	5.8170+01	8.4814-01	2.2561+00
-1.0	2.1955+00	1.5369+01	1.7565+01	5.6491+01	1.0387+00	2.2066+00
-.8	2.1552+00	1.4824+01	1.6979+01	5.4945+01	1.2306+00	2.1653+00
-.6	2.1212+00	1.4368+01	1.6489+01	5.3504+01	1.4237+00	2.1301+00
-.4	2.0915+00	1.3978+01	1.6070+01	5.2144+01	1.6176+00	2.0993+00
-.2	2.0645+00	1.3632+01	1.5697+01	5.0842+01	1.8119+00	2.0709+00
.0	2.0379+00	1.3308+01	1.5345+01	4.9572+01	2.0063+00	2.0427+00
.2	2.0095+00	1.2978+01	1.4988+01	4.8311+01	2.2002+00	2.0121+00
.4	1.9767+00	1.2617+01	1.4594+01	4.7031+01	2.3931+00	1.9764+00
.6	1.9374+00	1.2197+01	1.4135+01	4.5710+01	2.5844+00	1.9329+00
.8	1.8897+00	1.1698+01	1.3588+01	4.4330+01	2.7735+00	1.8792+00
1.0	1.8337+00	1.1111+01	1.2944+01	4.2884+01	2.9605+00	1.8145+00
1.2	1.7715+00	1.0440+01	1.2212+01	4.1384+01	3.1455+00	1.7396+00
1.4	1.7076+00	9.7112+00	1.1419+01	3.9854+01	3.3295+00	1.6574+00
1.6	1.6484+00	8.9557+00	1.0604+01	3.8326+01	3.5142+00	1.5715+00
1.8	1.6018+00	8.2077+00	9.8095+00	3.6830+01	3.7017+00	1.4858+00
2.0	1.5770+00	7.4962+00	9.0732+00	3.5388+01	3.8950+00	1.4037+00
2.2	1.5856+00	6.8426+00	8.4282+00	3.4008+01	4.0973+00	1.3273+00

T= 13700

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.9300-18	6.9200-14	4.9200-01	5.4000-03	4.3100-05	5.0300-01
-6.8	2.3700-17	1.7500-13	4.9500-01	3.4400-03	6.8400-05	5.0200-01
-6.6	9.4200-17	4.4100-13	4.9700-01	2.1900-03	1.0900-04	5.0100-01
-6.4	3.7500-16	1.1100-12	4.9800-01	1.3900-03	1.7200-04	5.0100-01
-6.2	1.4900-15	2.7900-12	4.9900-01	8.7700-04	2.7300-04	5.0000-01
-6.0	5.9300-15	7.0100-12	4.9900-01	5.5500-04	4.3200-04	5.0000-01
-5.8	2.3600-14	1.7600-11	4.9900-01	3.5100-04	6.8400-04	5.0000-01
-5.6	9.3500-14	4.4100-11	4.9900-01	2.2200-04	1.0800-03	5.0000-01
-5.4	3.7000-13	1.1000-10	4.9900-01	1.4000-04	1.7100-03	4.9900-01
-5.2	1.4600-12	2.7500-10	4.9900-01	8.8700-05	2.7000-03	4.9900-01
-5.0	5.7400-12	6.8600-10	4.9800-01	5.6200-05	4.2600-03	4.9800-01
-4.8	2.2400-11	1.7000-09	4.9700-01	3.5600-05	6.6900-03	4.9700-01
-4.6	8.6600-11	4.1800-09	4.9500-01	2.2600-05	1.0500-02	4.9500-01
-4.4	3.3000-10	1.0200-08	4.9200-01	1.4400-05	1.6300-02	4.9200-01
-4.2	1.2300-09	2.4400-08	4.8700-01	9.2300-06	2.5100-02	4.8700-01
-4.0	4.4400-09	5.7300-08	4.8100-01	5.9300-06	3.8100-02	4.8100-01
-3.8	1.5400-08	1.3000-07	4.7200-01	3.8400-06	5.6800-02	4.7200-01
-3.6	5.0400-08	2.8600-07	4.5900-01	2.5000-06	8.2700-02	4.5900-01
-3.4	1.5500-07	5.9900-07	4.4100-01	1.6400-06	1.1700-01	4.4100-01
-3.2	4.4600-07	1.1900-06	4.2000-01	1.0900-06	1.6100-01	4.2000-01
-3.0	1.1900-06	2.2400-06	3.9400-01	7.2800-07	2.1300-01	3.9400-01
-2.8	2.9400-06	4.0100-06	3.6400-01	4.8900-07	2.7300-01	3.6400-01
-2.6	6.8100-06	6.8200-06	3.3100-01	3.3100-07	3.3800-01	3.3100-01
-2.4	1.4800-05	1.1100-05	2.9700-01	2.2300-07	4.0600-01	2.9700-01
-2.2	3.0600-05	1.7300-05	2.6300-01	1.5000-07	4.7500-01	2.6300-01
-2.0	6.0500-05	2.6100-05	2.2900-01	1.0100-07	5.4200-01	2.2900-01
-1.8	1.1500-04	3.8300-05	1.9700-01	6.8300-08	6.0500-01	1.9700-01
-1.6	2.1100-04	5.4700-05	1.6800-01	4.5900-08	6.6300-01	1.6800-01
-1.4	3.7700-04	7.6600-05	1.4200-01	3.0800-08	7.1500-01	1.4200-01
-1.2	6.5900-04	1.0500-04	1.1900-01	2.0700-08	7.6100-01	1.1900-01
-1.0	1.1300-03	1.4300-04	9.9000-02	1.3900-08	8.0100-01	9.9100-02
-.8	1.9000-03	1.9100-04	8.1900-02	9.3200-09	8.3400-01	8.2100-02
-.6	3.1600-03	2.5400-04	6.7500-02	6.2800-09	8.6100-01	6.7700-02
-.4	5.2000-03	3.3400-04	5.5400-02	4.2500-09	8.8300-01	5.5800-02
-.2	8.4400-03	4.3500-04	4.5400-02	2.8900-09	9.0000-01	4.5800-02
.0	1.3500-02	5.6400-04	3.7100-02	1.9700-09	9.1100-01	3.7700-02
.2	2.1400-02	7.2300-04	3.0300-02	1.3600-09	9.1700-01	3.1000-02
.4	3.3300-02	9.1900-04	2.4700-02	9.4800-10	9.1500-01	2.5600-02
.6	5.0800-02	1.1500-03	2.0100-02	6.6700-10	9.0700-01	2.1300-02
.8	7.5600-02	1.4200-03	1.6400-02	4.7600-10	8.8900-01	1.7800-02
1.0	1.0900-01	1.7200-03	1.3300-02	3.4400-10	8.6100-01	1.5000-02
1.2	1.5300-01	2.0400-03	1.0700-02	2.5200-10	8.2200-01	1.2800-02
1.4	2.0700-01	2.3700-03	8.6500-03	1.8800-10	7.7100-01	1.1000-02
1.6	2.7000-01	2.7200-03	6.9600-03	1.4400-10	7.1100-01	9.6800-03
1.8	3.4200-01	3.0900-03	5.6100-03	1.1500-10	6.4100-01	8.7000-03
2.0	4.1900-01	3.5600-03	4.5600-03	9.6800-11	5.6500-01	8.1200-03
2.2	5.0100-01	4.2600-03	3.8000-03	9.2400-11	4.8300-01	8.0600-03

T= 13700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0212+00	3.9856+01	4.3877+01	1.2901+02	-4.6953+00	4.0216+00
-6.8	4.0131+00	3.9646+01	4.3659+01	1.2695+02	-4.4962+00	4.0136+00
-6.6	4.0078+00	3.9510+01	4.3518+01	1.2496+02	-4.2968+00	4.0084+00
-6.4	4.0042+00	3.9421+01	4.3425+01	1.2303+02	-4.0972+00	4.0049+00
-6.2	4.0016+00	3.9361+01	4.3363+01	1.2113+02	-3.8974+00	4.0024+00
-6.0	3.9995+00	3.9318+01	4.3317+01	1.1924+02	-3.6977+00	4.0005+00
-5.8	3.9974+00	3.9282+01	4.3280+01	1.1736+02	-3.4979+00	3.9987+00
-5.6	3.9949+00	3.9246+01	4.3241+01	1.1549+02	-3.2982+00	3.9966+00
-5.4	3.9917+00	3.9203+01	4.3195+01	1.1361+02	-3.0985+00	3.9937+00
-5.2	3.9870+00	3.9143+01	4.3130+01	1.1171+02	-2.8990+00	3.9896+00
-5.0	3.9800+00	3.9055+01	4.3035+01	1.0979+02	-2.6998+00	3.9833+00
-4.8	3.9695+00	3.8922+01	4.2891+01	1.0782+02	-2.5009+00	3.9736+00
-4.6	3.9536+00	3.8719+01	4.2672+01	1.0580+02	-2.3027+00	3.9587+00
-4.4	3.9297+00	3.8412+01	4.2342+01	1.0367+02	-2.1053+00	3.9360+00
-4.2	3.8946+00	3.7956+01	4.1851+01	1.0141+02	-1.9092+00	3.9023+00
-4.0	3.8440+00	3.7297+01	4.1141+01	9.8974+01	-1.7149+00	3.8533+00
-3.8	3.7740+00	3.6380+01	4.0154+01	9.6301+01	-1.5229+00	3.7851+00
-3.6	3.6815+00	3.5162+01	3.8843+01	9.3366+01	-1.3337+00	3.6944+00
-3.4	3.5659+00	3.3636+01	3.7201+01	9.0169+01	-1.1475+00	3.5806+00
-3.2	3.4303+00	3.1838+01	3.5268+01	8.6760+01	-9.6435-01	3.4464+00
-3.0	3.2807+00	2.9851+01	3.3131+01	8.3227+01	-7.8371-01	3.2980+00
-2.8	3.1252+00	2.7779+01	3.0905+01	7.9681+01	-6.0480-01	3.1432+00
-2.6	2.9717+00	2.5730+01	2.8702+01	7.6228+01	-4.2668-01	2.9899+00
-2.4	2.8266+00	2.3789+01	2.6616+01	7.2952+01	-2.4842-01	2.8447+00
-2.2	2.6943+00	2.2017+01	2.4711+01	6.9909+01	-6.9237-02	2.7119+00
-2.0	2.5771+00	2.0443+01	2.3020+01	6.7122+01	1.1144-01	2.5940+00
-1.8	2.4755+00	1.9077+01	2.1552+01	6.4593+01	2.9398-01	2.4915+00
-1.6	2.3890+00	1.7911+01	2.0300+01	6.2308+01	4.7853-01	2.4040+00
-1.4	2.3162+00	1.6930+01	1.9246+01	6.0244+01	6.6510-01	2.3302+00
-1.2	2.2556+00	1.6111+01	1.8367+01	5.8373+01	8.5358-01	2.2685+00
-1.0	2.2052+00	1.5432+01	1.7637+01	5.6667+01	1.0438+00	2.2170+00
-.8	2.1633+00	1.4868+01	1.7031+01	5.5097+01	1.2354+00	2.1740+00
-.6	2.1279+00	1.4396+01	1.6524+01	5.3638+01	1.4283+00	2.1375+00
-.4	2.0974+00	1.3996+01	1.6093+01	5.2264+01	1.6220+00	2.1058+00
-.2	2.0698+00	1.3643+01	1.5712+01	5.0952+01	1.8162+00	2.0768+00
.0	2.0430+00	1.3315+01	1.5358+01	4.9677+01	2.0106+00	2.0483+00
.2	2.0149+00	1.2986+01	1.5001+01	4.8414+01	2.2046+00	2.0180+00
.4	1.9828+00	1.2631+01	1.4614+01	4.7138+01	2.3976+00	1.9830+00
.6	1.9445+00	1.2222+01	1.4166+01	4.5824+01	2.5891+00	1.9405+00
.8	1.8982+00	1.1736+01	1.3634+01	4.4453+01	2.7787+00	1.8881+00
1.0	1.8437+00	1.1163+01	1.3007+01	4.3018+01	2.9660+00	1.8247+00
1.2	1.7826+00	1.0506+01	1.2289+01	4.1526+01	3.1514+00	1.7509+00
1.4	1.7194+00	9.7868+00	1.1506+01	4.0001+01	3.3357+00	1.6692+00
1.6	1.6604+00	9.0362+00	1.0697+01	3.8472+01	3.5205+00	1.5833+00
1.8	1.6135+00	8.2886+00	9.9020+00	3.6971+01	3.7081+00	1.4971+00
2.0	1.5880+00	7.5736+00	9.1616+00	3.5520+01	3.9012+00	1.4139+00
2.2	1.5955+00	6.9142+00	8.5097+00	3.4129+01	4.1032+00	1.3363+00

T= 13800

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.5900-18	5.9500-14	4.9000-01	6.5000-03	3.9100-05	5.0300-01
-6.8	1.8300-17	1.5100-13	4.9400-01	4.1500-03	6.2100-05	5.0200-01
-6.6	7.2900-17	3.8000-13	4.9600-01	2.6400-03	9.8500-05	5.0100-01
-6.4	2.9000-16	9.5700-13	4.9700-01	1.6800-03	1.5600-04	5.0100-01
-6.2	1.1600-15	2.4100-12	4.9800-01	1.0600-03	2.4800-04	5.0000-01
-6.0	4.5900-15	6.0400-12	4.9900-01	6.7100-04	3.9200-04	5.0000-01
-5.8	1.8200-14	1.5200-11	4.9900-01	4.2500-04	6.2100-04	5.0000-01
-5.6	7.2400-14	3.8000-11	4.9900-01	2.6800-04	9.8300-04	5.0000-01
-5.4	2.8700-13	9.5200-11	4.9900-01	1.7000-04	1.5500-03	4.9900-01
-5.2	1.1300-12	2.3800-10	4.9900-01	1.0700-04	2.4600-03	4.9900-01
-5.0	4.4600-12	5.9300-10	4.9800-01	6.8000-05	3.8700-03	4.9800-01
-4.8	1.7400-11	1.4700-09	4.9700-01	4.3100-05	6.0900-03	4.9700-01
-4.6	6.7500-11	3.6300-09	4.9500-01	2.7400-05	9.5300-03	4.9500-01
-4.4	2.5800-10	8.8600-09	4.9300-01	1.7400-05	1.4800-02	4.9300-01
-4.2	9.6600-10	2.1300-08	4.8900-01	1.1100-05	2.2900-02	4.8900-01
-4.0	3.5100-09	5.0200-08	4.8300-01	7.1600-06	3.4900-02	4.8300-01
-3.8	1.2300-08	1.1500-07	4.7400-01	4.6200-06	5.2300-02	4.7400-01
-3.6	4.0800-08	2.5500-07	4.6200-01	3.0100-06	7.6600-02	4.6200-01
-3.4	1.2700-07	5.3900-07	4.4500-01	1.9800-06	1.0900-01	4.4500-01
-3.2	3.7100-07	1.0800-06	4.2500-01	1.3100-06	1.5100-01	4.2500-01
-3.0	1.0000-06	2.0600-06	3.9900-01	8.7300-07	2.0100-01	3.9900-01
-2.8	2.5200-06	3.7300-06	3.7000-01	5.8600-07	2.5900-01	3.7000-01
-2.6	5.9300-06	6.4100-06	3.3800-01	3.9500-07	3.2300-01	3.3800-01
-2.4	1.3100-05	1.0500-05	3.0400-01	2.6700-07	3.9100-01	3.0400-01
-2.2	2.7300-05	1.6600-05	2.7000-01	1.8000-07	4.6000-01	2.7000-01
-2.0	5.4400-05	2.5200-05	2.3600-01	1.2200-07	5.2700-01	2.3600-01
-1.8	1.0400-04	3.7100-05	2.0400-01	8.2100-08	5.9200-01	2.0400-01
-1.6	1.9200-04	5.3300-05	1.7400-01	5.5300-08	6.5100-01	1.7400-01
-1.4	3.4600-04	7.4900-05	1.4800-01	3.7200-08	7.0400-01	1.4800-01
-1.2	6.0600-04	1.0300-04	1.2400-01	2.5000-08	7.5100-01	1.2400-01
-1.0	1.0400-03	1.4100-04	1.0300-01	1.6800-08	7.9200-01	1.0300-01
-.8	1.7600-03	1.8900-04	8.5600-02	1.1300-08	8.2700-01	8.5700-02
-.6	2.9400-03	2.5100-04	7.0600-02	7.6200-09	8.5500-01	7.0800-02
-.4	4.8500-03	3.3100-04	5.8000-02	5.1600-09	8.7800-01	5.8400-02
-.2	7.8800-03	4.3300-04	4.7600-02	3.5100-09	8.9600-01	4.8000-02
.0	1.2700-02	5.6200-04	3.8900-02	2.4100-09	9.0800-01	3.9500-02
.2	2.0100-02	7.2300-04	3.1800-02	1.6600-09	9.1500-01	3.2600-02
.4	3.1400-02	9.2100-04	2.6000-02	1.1600-09	9.1500-01	2.6900-02
.6	4.8000-02	1.1600-03	2.1200-02	8.1900-10	9.0700-01	2.2400-02
.8	7.1700-02	1.4300-03	1.7300-02	5.8500-10	8.9100-01	1.8700-02
1.0	1.0400-01	1.7400-03	1.4000-02	4.2400-10	8.6400-01	1.5800-02
1.2	1.4600-01	2.0800-03	1.1400-02	3.1300-10	8.2700-01	1.3400-02
1.4	1.9900-01	2.4300-03	9.1800-03	2.3500-10	7.7800-01	1.1600-02
1.6	2.6100-01	2.8000-03	7.4100-03	1.8100-10	7.1800-01	1.0200-02
1.8	3.3200-01	3.2100-03	6.0000-03	1.4500-10	6.5000-01	9.2100-03
2.0	4.0900-01	3.7200-03	4.9000-03	1.2500-10	5.7400-01	8.6200-03
2.2	4.9100-01	4.4900-03	4.1100-03	1.2100-10	4.9200-01	8.6000-03

T= 13800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0257+00	3.9733+01	4.3759+01	1.2917+02	-4.6917+00	4.0261+00
-6.8	4.0160+00	3.9483+01	4.3499+01	1.2707+02	-4.4927+00	4.0165+00
-6.6	4.0097+00	3.9321+01	4.3330+01	1.2506+02	-4.2934+00	4.0102+00
-6.4	4.0055+00	3.9215+01	4.3221+01	1.2311+02	-4.0939+00	4.0061+00
-6.2	4.0025+00	3.9145+01	4.3148+01	1.2120+02	-3.8942+00	4.0033+00
-6.0	4.0001+00	3.9096+01	4.3096+01	1.1931+02	-3.6944+00	4.0011+00
-5.8	3.9979+00	3.9057+01	4.3055+01	1.1742+02	-3.4947+00	3.9992+00
-5.6	3.9955+00	3.9021+01	4.3016+01	1.1555+02	-3.2949+00	3.9972+00
-5.4	3.9924+00	3.8979+01	4.2971+01	1.1367+02	-3.0953+00	3.9945+00
-5.2	3.9881+00	3.8923+01	4.2911+01	1.1177+02	-2.8958+00	3.9907+00
-5.0	3.9816+00	3.8842+01	4.2824+01	1.0986+02	-2.6965+00	3.9849+00
-4.8	3.9720+00	3.8721+01	4.2693+01	1.0790+02	-2.4975+00	3.9760+00
-4.6	3.9573+00	3.8536+01	4.2493+01	1.0589+02	-2.2991+00	3.9624+00
-4.4	3.9354+00	3.8256+01	4.2192+01	1.0380+02	-2.1015+00	3.9416+00
-4.2	3.9029+00	3.7839+01	4.1742+01	1.0157+02	-1.9051+00	3.9105+00
-4.0	3.8559+00	3.7232+01	4.1088+01	9.9179+01	-1.7104+00	3.8652+00
-3.8	3.7902+00	3.6379+01	4.0169+01	9.6565+01	-1.5179+00	3.8013+00
-3.6	3.7026+00	3.5235+01	3.8938+01	9.3695+01	-1.3280+00	3.7156+00
-3.4	3.5918+00	3.3783+01	3.7375+01	9.0562+01	-1.1412+00	3.6066+00
-3.2	3.4600+00	3.2050+01	3.5510+01	8.7205+01	-9.5744-01	3.4765+00
-3.0	3.3128+00	3.0109+01	3.3422+01	8.3704+01	-7.7633-01	3.3305+00
-2.8	3.1579+00	2.8062+01	3.1220+01	8.0167+01	-5.9712-01	3.1765+00
-2.6	3.0034+00	2.6015+01	2.9019+01	7.6701+01	-4.1891-01	3.0223+00
-2.4	2.8562+00	2.4060+01	2.6917+01	7.3397+01	-2.4074-01	2.8750+00
-2.2	2.7210+00	2.2262+01	2.4983+01	7.0315+01	-6.1794-02	2.7394+00
-2.0	2.6005+00	2.0656+01	2.3257+01	6.7485+01	1.1854-01	2.6183+00
-1.8	2.4957+00	1.9256+01	2.1752+01	6.4912+01	3.0067-01	2.5126+00
-1.6	2.4061+00	1.8058+01	2.0464+01	6.2585+01	4.8480-01	2.4220+00
-1.4	2.3306+00	1.7046+01	1.9376+01	6.0483+01	6.7095-01	2.3454+00
-1.2	2.2675+00	1.6200+01	1.8468+01	5.8579+01	8.5903-01	2.2812+00
-1.0	2.2151+00	1.5497+01	1.7713+01	5.6845+01	1.0489+00	2.2277+00
-.8	2.1715+00	1.4914+01	1.7086+01	5.5252+01	1.2402+00	2.1829+00
-.6	2.1349+00	1.4427+01	1.6562+01	5.3774+01	1.4328+00	2.1451+00
-.4	2.1034+00	1.4015+01	1.6118+01	5.2385+01	1.6264+00	2.1123+00
-.2	2.0751+00	1.3654+01	1.5729+01	5.1063+01	1.8205+00	2.0827+00
.0	2.0481+00	1.3322+01	1.5370+01	4.9781+01	2.0148+00	2.0540+00
.2	2.0202+00	1.2994+01	1.5014+01	4.8516+01	2.2089+00	2.0238+00
.4	1.9887+00	1.2644+01	1.4633+01	4.7243+01	2.4021+00	1.9893+00
.6	1.9514+00	1.2244+01	1.4195+01	4.5935+01	2.5938+00	1.9478+00
.8	1.9065+00	1.1771+01	1.3678+01	4.4574+01	2.7837+00	1.8967+00
1.0	1.8533+00	1.1212+01	1.3066+01	4.3149+01	2.9714+00	1.8346+00
1.2	1.7934+00	1.0569+01	1.2362+01	4.1666+01	3.1572+00	1.7620+00
1.4	1.7310+00	9.8597+00	1.1591+01	4.0145+01	3.3418+00	1.6809+00
1.6	1.6722+00	9.1147+00	1.0787+01	3.8616+01	3.5268+00	1.5950+00
1.8	1.6250+00	8.3680+00	9.9931+00	3.7111+01	3.7143+00	1.5083+00
2.0	1.5989+00	7.6502+00	9.2491+00	3.5652+01	3.9073+00	1.4241+00
2.2	1.6054+00	6.9855+00	8.5908+00	3.4251+01	4.1091+00	1.3453+00

T= 13900

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.5600-18	5.1200-14	4.8800-01	7.8000-03	3.5500-05	5.0400-01
-6.8	1.4200-17	1.3000-13	4.9200-01	4.9900-03	5.6400-05	5.0200-01
-6.6	5.6600-17	3.2800-13	4.9500-01	3.1800-03	8.9500-05	5.0200-01
-6.4	2.2500-16	8.2600-13	4.9700-01	2.0200-03	1.4200-04	5.0100-01
-6.2	8.9700-16	2.0800-12	4.9800-01	1.2800-03	2.2500-04	5.0100-01
-6.0	3.5700-15	5.2200-12	4.9900-01	8.1000-04	3.5700-04	5.0000-01
-5.8	1.4200-14	1.3100-11	4.9900-01	5.1200-04	5.6500-04	5.0000-01
-5.6	5.6200-14	3.2900-11	4.9900-01	3.2400-04	8.9400-04	5.0000-01
-5.4	2.2300-13	8.2300-11	4.9900-01	2.0500-04	1.4100-03	4.9900-01
-5.2	8.8100-13	2.0600-10	4.9900-01	1.3000-04	2.2300-03	4.9900-01
-5.0	3.4700-12	5.1300-10	4.9800-01	8.2100-05	3.5200-03	4.9800-01
-4.8	1.3600-11	1.2700-09	4.9700-01	5.2100-05	5.5400-03	4.9700-01
-4.6	5.2700-11	3.1500-09	4.9600-01	3.3000-05	8.6900-03	4.9600-01
-4.4	2.0200-10	7.7000-09	4.9300-01	2.1000-05	1.3500-02	4.9300-01
-4.2	7.6000-10	1.8600-08	4.9000-01	1.3400-05	2.0900-02	4.9000-01
-4.0	2.7800-09	4.4100-08	4.8400-01	8.6200-06	3.2000-02	4.8400-01
-3.8	9.8200-09	1.0200-07	4.7600-01	5.5600-06	4.8100-02	4.7600-01
-3.6	3.3000-08	2.2700-07	4.6500-01	3.6200-06	7.0800-02	4.6500-01
-3.4	1.0400-07	4.8400-07	4.4900-01	2.3700-06	1.0200-01	4.4900-01
-3.2	3.0900-07	9.8400-07	4.2900-01	1.5700-06	1.4100-01	4.2900-01
-3.0	8.4800-07	1.9000-06	4.0500-01	1.0400-06	1.9000-01	4.0500-01
-2.8	2.1600-06	3.4700-06	3.7700-01	7.0100-07	2.4600-01	3.7700-01
-2.6	5.1500-06	6.0200-06	3.4500-01	4.7300-07	3.0900-01	3.4500-01
-2.4	1.1500-05	9.9600-06	3.1200-01	3.1900-07	3.7700-01	3.1200-01
-2.2	2.4300-05	1.5800-05	2.7700-01	2.1600-07	4.4500-01	2.7700-01
-2.0	4.8800-05	2.4200-05	2.4300-01	1.4600-07	5.1300-01	2.4300-01
-1.8	9.4100-05	3.5900-05	2.1100-01	9.8600-08	5.7800-01	2.1100-01
-1.6	1.7500-04	5.1900-05	1.8100-01	6.6400-08	6.3800-01	1.8100-01
-1.4	3.1700-04	7.3200-05	1.5300-01	4.4700-08	6.9300-01	1.5300-01
-1.2	5.5800-04	1.0100-04	1.2900-01	3.0100-08	7.4200-01	1.2900-01
-1.0	9.6400-04	1.3800-04	1.0800-01	2.0300-08	7.8400-01	1.0800-01
-.8	1.6400-03	1.8700-04	8.9300-02	1.3700-08	8.1900-01	8.9400-02
-.6	2.7400-03	2.4900-04	7.3700-02	9.2200-09	8.4900-01	7.4000-02
-.4	4.5200-03	3.2800-04	6.0700-02	6.2500-09	8.7300-01	6.1000-02
-.2	7.3600-03	4.3000-04	4.9800-02	4.2600-09	8.9200-01	5.0300-02
.0	1.1900-02	5.6000-04	4.0800-02	2.9300-09	9.0500-01	4.1400-02
.2	1.8800-02	7.2200-04	3.3400-02	2.0300-09	9.1300-01	3.4100-02
.4	2.9500-02	9.2200-04	2.7300-02	1.4200-09	9.1400-01	2.8200-02
.6	4.5300-02	1.1600-03	2.2300-02	1.0000-09	9.0800-01	2.3500-02
.8	6.8000-02	1.4500-03	1.8200-02	7.1800-10	8.9300-01	1.9600-02
1.0	9.9100-02	1.7700-03	1.4800-02	5.2200-10	8.6800-01	1.6600-02
1.2	1.4000-01	2.1200-03	1.2000-02	3.8700-10	8.3200-01	1.4100-02
1.4	1.9100-01	2.4900-03	9.7400-03	2.9200-10	7.8400-01	1.2200-02
1.6	2.5300-01	2.8800-03	7.8900-03	2.2700-10	7.2600-01	1.0800-02
1.8	3.2300-01	3.3300-03	6.4100-03	1.8400-10	6.5800-01	9.7400-03
2.0	3.9900-01	3.8800-03	5.2600-03	1.6000-10	5.8200-01	9.1400-03
2.2	4.8100-01	4.7300-03	4.4500-03	1.5900-10	5.0100-01	9.1700-03



T= 13900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0310+00	3.9634+01	4.3665+01	1.2936+02	-4.6880+00	4.0313+00
-6.8	4.0195+00	3.9336+01	4.3355+01	1.2721+02	-4.4892+00	4.0199+00
-6.6	4.0119+00	3.9143+01	4.3155+01	1.2517+02	-4.2900+00	4.0124+00
-6.4	4.0069+00	3.9018+01	4.3025+01	1.2320+02	-4.0906+00	4.0076+00
-6.2	4.0034+00	3.8936+01	4.2940+01	1.2127+02	-3.8910+00	4.0043+00
-6.0	4.0008+00	3.8880+01	4.2880+01	1.1937+02	-3.6912+00	4.0018+00
-5.8	3.9985+00	3.8837+01	4.2835+01	1.1749+02	-3.4915+00	3.9998+00
-5.6	3.9961+00	3.8799+01	4.2795+01	1.1561+02	-3.2917+00	3.9977+00
-5.4	3.9932+00	3.8758+01	4.2751+01	1.1373+02	-3.0921+00	3.9952+00
-5.2	3.9891+00	3.8705+01	4.2694+01	1.1184+02	-2.8925+00	3.9916+00
-5.0	3.9831+00	3.8631+01	4.2614+01	1.0993+02	-2.6932+00	3.9863+00
-4.8	3.9742+00	3.8520+01	4.2494+01	1.0798+02	-2.4941+00	3.9782+00
-4.6	3.9607+00	3.8351+01	4.2312+01	1.0599+02	-2.2956+00	3.9657+00
-4.4	3.9405+00	3.8096+01	4.2036+01	1.0391+02	-2.0978+00	3.9467+00
-4.2	3.9104+00	3.7714+01	4.1624+01	1.0172+02	-1.9012+00	3.9180+00
-4.0	3.8667+00	3.7155+01	4.1021+01	9.9370+01	-1.7060+00	3.8760+00
-3.8	3.8053+00	3.6363+01	4.0168+01	9.6811+01	-1.5130+00	3.8164+00
-3.6	3.7224+00	3.5290+01	3.9012+01	9.4004+01	-1.3226+00	3.7355+00
-3.4	3.6163+00	3.3911+01	3.7528+01	9.0935+01	-1.1351+00	3.6313+00
-3.2	3.4886+00	3.2245+01	3.5733+01	8.7631+01	-9.5074-01	3.5053+00
-3.0	3.3440+00	3.0354+01	3.3698+01	8.4166+01	-7.6911-01	3.3622+00
-2.8	3.1901+00	2.8334+01	3.1525+01	8.0643+01	-5.8958-01	3.2093+00
-2.6	3.0350+00	2.6294+01	2.9329+01	7.7169+01	-4.1123-01	3.0546+00
-2.4	2.8859+00	2.4329+01	2.7214+01	7.3840+01	-2.3311-01	2.9055+00
-2.2	2.7479+00	2.2507+01	2.5255+01	7.0722+01	-5.4377-02	2.7672+00
-2.0	2.6243+00	2.0871+01	2.3495+01	6.7849+01	1.2564-01	2.6430+00
-1.8	2.5163+00	1.9438+01	2.1954+01	6.5233+01	3.0738-01	2.5340+00
-1.6	2.4236+00	1.8207+01	2.0631+01	6.2865+01	4.9108-01	2.4404+00
-1.4	2.3453+00	1.7165+01	1.9510+01	6.0726+01	6.7682-01	2.3609+00
-1.2	2.2798+00	1.6292+01	1.8572+01	5.8788+01	8.6451-01	2.2943+00
-1.0	2.2253+00	1.5566+01	1.7791+01	5.7025+01	1.0540+00	2.2386+00
-.8	2.1800+00	1.4963+01	1.7143+01	5.5409+01	1.2451+00	2.1921+00
-.6	2.1420+00	1.4461+01	1.6603+01	5.3911+01	1.4374+00	2.1529+00
-.4	2.1095+00	1.4036+01	1.6145+01	5.2508+01	1.6308+00	2.1191+00
-.2	2.0806+00	1.3667+01	1.5747+01	5.1174+01	1.8248+00	2.0887+00
.0	2.0533+00	1.3330+01	1.5384+01	4.9886+01	2.0191+00	2.0597+00
.2	2.0254+00	1.3002+01	1.5028+01	4.8618+01	2.2131+00	2.0296+00
.4	1.9945+00	1.2656+01	1.4651+01	4.7347+01	2.4065+00	1.9956+00
.6	1.9582+00	1.2265+01	1.4223+01	4.6045+01	2.5985+00	1.9550+00
.8	1.9145+00	1.1805+01	1.3719+01	4.4693+01	2.7887+00	1.9052+00
1.0	1.8627+00	1.1260+01	1.3123+01	4.3278+01	2.9768+00	1.8444+00
1.2	1.8041+00	1.0630+01	1.2434+01	4.1804+01	3.1629+00	1.7729+00
1.4	1.7426+00	9.9314+00	1.1674+01	4.0288+01	3.3478+00	1.6925+00
1.6	1.6841+00	9.1926+00	1.0877+01	3.8761+01	3.5330+00	1.6068+00
1.8	1.6367+00	8.4474+00	1.0084+01	3.7252+01	3.7206+00	1.5196+00
2.0	1.6099+00	7.7271+00	9.3371+00	3.5785+01	3.9134+00	1.4346+00
2.2	1.6154+00	7.0575+00	8.6729+00	3.4374+01	4.1149+00	1.3545+00

T= 14000

LOG D	N2	N2+	N+	N++	N	E
-7.0	2.7700-18	4.4200-14	4.8600-01	9.3300-03	3.2200-05	5.0500-01
-6.8	1.1100-17	1.1200-13	4.9100-01	5.9900-03	5.1200-05	5.0300-01
-6.6	4.4100-17	2.8300-13	4.9400-01	3.8200-03	8.1400-05	5.0200-01
-6.4	1.7600-16	7.1400-13	4.9600-01	2.4300-03	1.2900-04	5.0100-01
-6.2	6.9900-16	1.8000-12	4.9800-01	1.5400-03	2.0500-04	5.0100-01
-6.0	2.7800-15	4.5200-12	4.9800-01	9.7500-04	3.2400-04	5.0000-01
-5.8	1.1100-14	1.1300-11	4.9900-01	6.1700-04	5.1400-04	5.0000-01
-5.6	4.3900-14	2.8500-11	4.9900-01	3.9000-04	8.1400-04	5.0000-01
-5.4	1.7400-13	7.1300-11	4.9900-01	2.4700-04	1.2900-03	4.9900-01
-5.2	6.8800-13	1.7800-10	4.9900-01	1.5600-04	2.0300-03	4.9900-01
-5.0	2.7100-12	4.4500-10	4.9800-01	9.8900-05	3.2100-03	4.9800-01
-4.8	1.0600-11	1.1100-09	4.9700-01	6.2700-05	5.0500-03	4.9800-01
-4.6	4.1300-11	2.7400-09	4.9600-01	3.9800-05	7.9300-03	4.9600-01
-4.4	1.5900-10	6.7100-09	4.9400-01	2.5300-05	1.2400-02	4.9400-01
-4.2	6.0000-10	1.6300-08	4.9000-01	1.6200-05	1.9200-02	4.9000-01
-4.0	2.2100-09	3.8700-08	4.8500-01	1.0400-05	2.9400-02	4.8500-01
-3.8	7.8700-09	8.9800-08	4.7800-01	6.6700-06	4.4300-02	4.7800-01
-3.6	2.6700-08	2.0200-07	4.6700-01	4.3300-06	6.5500-02	4.6700-01
-3.4	8.5700-08	4.3500-07	4.5300-01	2.8400-06	9.4500-02	4.5300-01
-3.2	2.5700-07	8.9300-07	4.3400-01	1.8700-06	1.3200-01	4.3400-01
-3.0	7.1700-07	1.7400-06	4.1100-01	1.2500-06	1.7900-01	4.1100-01
-2.8	1.8600-06	3.2100-06	3.8300-01	8.3600-07	2.3400-01	3.8300-01
-2.6	4.4800-06	5.6400-06	3.5200-01	5.6400-07	2.9600-01	3.5200-01
-2.4	1.0100-05	9.4300-06	3.1900-01	3.8100-07	3.6200-01	3.1900-01
-2.2	2.1600-05	1.5100-05	2.8500-01	2.5800-07	4.3100-01	2.8500-01
-2.0	4.3900-05	2.3300-05	2.5000-01	1.7400-07	4.9900-01	2.5000-01
-1.8	8.5300-05	3.4800-05	2.1800-01	1.1800-07	5.6500-01	2.1800-01
-1.6	1.6000-04	5.0500-05	1.8700-01	7.9600-08	6.2600-01	1.8700-01
-1.4	2.9000-04	7.1600-05	1.5900-01	5.3700-08	6.8200-01	1.5900-01
-1.2	5.1400-04	9.9600-05	1.3400-01	3.6200-08	7.3200-01	1.3400-01
-1.0	8.9200-04	1.3600-04	1.1200-01	2.4400-08	7.7500-01	1.1200-01
-.8	1.5200-03	1.8400-04	9.3100-02	1.6500-08	8.1200-01	9.3200-02
-.6	2.5500-03	2.4600-04	7.7000-02	1.1100-08	8.4300-01	7.7200-02
-.4	4.2100-03	3.2600-04	6.3400-02	7.5600-09	8.6800-01	6.3800-02
-.2	6.8900-03	4.2800-04	5.2100-02	5.1600-09	8.8800-01	5.2600-02
.0	1.1100-02	5.5700-04	4.2800-02	3.5500-09	9.0200-01	4.3300-02
.2	1.7700-02	7.2100-04	3.5000-02	2.4600-09	9.1100-01	3.5800-02
.4	2.7800-02	9.2300-04	2.8700-02	1.7200-09	9.1300-01	2.9600-02
.6	4.2800-02	1.1700-03	2.3400-02	1.2200-09	9.0800-01	2.4600-02
.8	6.4500-02	1.4600-03	1.9100-02	8.7800-10	8.9400-01	2.0600-02
1.0	9.4500-02	1.7900-03	1.5600-02	6.4100-10	8.7100-01	1.7400-02
1.2	1.3400-01	2.1500-03	1.2700-02	4.7700-10	8.3600-01	1.4900-02
1.4	1.8400-01	2.5400-03	1.0300-02	3.6300-10	7.9000-01	1.2900-02
1.6	2.4400-01	2.9700-03	8.3900-03	2.8400-10	7.3300-01	1.1400-02
1.8	3.1300-01	3.4400-03	6.8400-03	2.3200-10	6.6600-01	1.0300-02
2.0	3.9000-01	4.0400-03	5.6500-03	2.0500-10	5.9100-01	9.6900-03
2.2	4.7100-01	4.9700-03	4.8000-03	2.0900-10	5.0900-01	9.7700-03

T= 14000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0372+00	3.9580+01	4.3617+01	1.2959+02	-4.6842+00	4.0376+00
-6.8	4.0235+00	3.9227+01	4.3251+01	1.2738+02	-4.4857+00	4.0239+00
-6.6	4.0145+00	3.8999+01	4.3013+01	1.2530+02	-4.2866+00	4.0150+00
-6.4	4.0086+00	3.8851+01	4.2860+01	1.2331+02	-4.0873+00	4.0092+00
-6.2	4.0046+00	3.8754+01	4.2759+01	1.2137+02	-3.8877+00	4.0054+00
-6.0	4.0016+00	3.8689+01	4.2690+01	1.1946+02	-3.6880+00	4.0026+00
-5.8	3.9992+00	3.8641+01	4.2640+01	1.1757+02	-3.4883+00	4.0004+00
-5.6	3.9967+00	3.8601+01	4.2597+01	1.1569+02	-3.2886+00	3.9983+00
-5.4	3.9939+00	3.8560+01	4.2554+01	1.1381+02	-3.0889+00	3.9959+00
-5.2	3.9900+00	3.8510+01	4.2500+01	1.1192+02	-2.8893+00	3.9925+00
-5.0	3.9845+00	3.8441+01	4.2425+01	1.1001+02	-2.6899+00	3.9876+00
-4.8	3.9762+00	3.8339+01	4.2315+01	1.0808+02	-2.4908+00	3.9802+00
-4.6	3.9638+00	3.8185+01	4.2148+01	1.0609+02	-2.2922+00	3.9687+00
-4.4	3.9451+00	3.7951+01	4.1896+01	1.0404+02	-2.0942+00	3.9512+00
-4.2	3.9173+00	3.7601+01	4.1518+01	1.0188+02	-1.8973+00	3.9249+00
-4.0	3.8767+00	3.7085+01	4.0962+01	9.9567+01	-1.7018+00	3.8860+00
-3.8	3.8192+00	3.6350+01	4.0170+01	9.7059+01	-1.5083+00	3.8303+00
-3.6	3.7409+00	3.5344+01	3.9085+01	9.4312+01	-1.3173+00	3.7540+00
-3.4	3.6396+00	3.4037+01	3.7677+01	9.1304+01	-1.1292+00	3.6547+00
-3.2	3.5160+00	3.2437+01	3.5953+01	8.8055+01	-9.4422-01	3.5330+00
-3.0	3.3744+00	3.0597+01	3.3971+01	8.4628+01	-7.6207-01	3.3930+00
-2.8	3.2218+00	2.8609+01	3.1830+01	8.1121+01	-5.8217-01	3.2415+00
-2.6	3.0664+00	2.6578+01	2.9644+01	7.7642+01	-4.0365-01	3.0867+00
-2.4	2.9156+00	2.4603+01	2.7519+01	7.4290+01	-2.2554-01	2.9360+00
-2.2	2.7751+00	2.2760+01	2.5535+01	7.1137+01	-4.6990-02	2.7953+00
-2.0	2.6485+00	2.1094+01	2.3742+01	6.8223+01	1.3272-01	2.6680+00
-1.8	2.5373+00	1.9628+01	2.2165+01	6.5563+01	3.1409-01	2.5559+00
-1.6	2.4415+00	1.8364+01	2.0806+01	6.3154+01	4.9739-01	2.4591+00
-1.4	2.3604+00	1.7291+01	1.9651+01	6.0975+01	6.8271-01	2.3769+00
-1.2	2.2924+00	1.6390+01	1.8683+01	5.9004+01	8.7001-01	2.3077+00
-1.0	2.2358+00	1.5640+01	1.7876+01	5.7211+01	1.0592+00	2.2498+00
-.8	2.1887+00	1.5017+01	1.7205+01	5.5570+01	1.2499+00	2.2015+00
-.6	2.1492+00	1.4498+01	1.6647+01	5.4052+01	1.4420+00	2.1608+00
-.4	2.1157+00	1.4060+01	1.6176+01	5.2632+01	1.6352+00	2.1259+00
-.2	2.0860+00	1.3682+01	1.5768+01	5.1287+01	1.8291+00	2.0948+00
.0	2.0584+00	1.3340+01	1.5399+01	4.9991+01	2.0233+00	2.0654+00
.2	2.0306+00	1.3011+01	1.5041+01	4.8720+01	2.2173+00	2.0353+00
.4	2.0001+00	1.2668+01	1.4668+01	4.7449+01	2.4108+00	2.0017+00
.6	1.9647+00	1.2284+01	1.4249+01	4.6152+01	2.6030+00	1.9620+00
.8	1.9221+00	1.1835+01	1.3757+01	4.4808+01	2.7935+00	1.9133+00
1.0	1.8717+00	1.1304+01	1.3176+01	4.3403+01	2.9820+00	1.8538+00
1.2	1.8143+00	1.0687+01	1.2502+01	4.1937+01	3.1684+00	1.7834+00
1.4	1.7537+00	9.9993+00	1.1753+01	4.0427+01	3.3537+00	1.7038+00
1.6	1.6956+00	9.2671+00	1.0963+01	3.8901+01	3.5391+00	1.6182+00
1.8	1.6481+00	8.5240+00	1.0172+01	3.7389+01	3.7267+00	1.5306+00
2.0	1.6208+00	7.8021+00	9.4228+00	3.5915+01	3.9194+00	1.4448+00
2.2	1.6253+00	7.1282+00	8.7534+00	3.4495+01	4.1207+00	1.3637+00

T= 14100

LOG D.	N2	N2+	N+	N++	N	E
-7.0	2.1600-18	3.8100-14	4.8300-01	1.1100-02	2.9300-05	5.0600-01
-6.8	8.6300-18	9.6900-14	4.8900-01	7.1500-03	4.6600-05	5.0400-01
-6.6	3.4500-17	2.4500-13	4.9300-01	4.5700-03	7.4100-05	5.0200-01
-6.4	1.3700-16	6.1900-13	4.9600-01	2.9100-03	1.1800-04	5.0100-01
-6.2	5.4700-16	1.5600-12	4.9700-01	1.8500-03	1.8700-04	5.0100-01
-6.0	2.1800-15	3.9200-12	4.9800-01	1.1700-03	2.9600-04	5.0000-01
-5.8	8.6500-15	9.8500-12	4.9900-01	7.4100-04	4.6800-04	5.0000-01
-5.6	3.4300-14	2.4700-11	4.9900-01	4.6900-04	7.4200-04	5.0000-01
-5.4	1.3600-13	6.1900-11	4.9900-01	2.9600-04	1.1700-03	5.0000-01
-5.2	5.3900-13	1.5500-10	4.9900-01	1.8800-04	1.8500-03	4.9900-01
-5.0	2.1200-12	3.8700-10	4.9800-01	1.1900-04	2.9300-03	4.9900-01
-4.8	8.3400-12	9.6300-10	4.9800-01	7.5200-05	4.6100-03	4.9800-01
-4.6	3.2500-11	2.3800-09	4.9600-01	4.7700-05	7.2400-03	4.9600-01
-4.4	1.2500-10	5.8500-09	4.9400-01	3.0400-05	1.1300-02	4.9400-01
-4.2	4.7500-10	1.4200-08	4.9100-01	1.9400-05	1.7600-02	4.9100-01
-4.0	1.7600-09	3.4000-08	4.8600-01	1.2400-05	2.7000-02	4.8700-01
-3.8	6.3100-09	7.9300-08	4.8000-01	7.9900-06	4.0800-02	4.8000-01
-3.6	2.1600-08	1.7900-07	4.7000-01	5.1800-06	6.0600-02	4.7000-01
-3.4	7.0300-08	3.9000-07	4.5600-01	3.3900-06	8.7900-02	4.5600-01
-3.2	2.1400-07	8.1000-07	4.3800-01	2.2300-06	1.2400-01	4.3800-01
-3.0	6.0500-07	1.6000-06	4.1600-01	1.4900-06	1.6900-01	4.1600-01
-2.8	1.5900-06	2.9800-06	3.8900-01	9.9500-07	2.2200-01	3.8900-01
-2.6	3.8900-06	5.2800-06	3.5900-01	6.7100-07	2.8300-01	3.5900-01
-2.4	8.9100-06	8.9100-06	3.2600-01	4.5300-07	3.4800-01	3.2600-01
-2.2	1.9200-05	1.4400-05	2.9200-01	3.0700-07	4.1700-01	2.9200-01
-2.0	3.9400-05	2.2400-05	2.5700-01	2.0800-07	4.8500-01	2.5700-01
-1.8	7.7200-05	3.3600-05	2.2400-01	1.4100-07	5.5100-01	2.2400-01
-1.6	1.4600-04	4.9100-05	1.9300-01	9.5100-08	6.1300-01	1.9300-01
-1.4	2.6600-04	6.9900-05	1.6500-01	6.4200-08	6.7000-01	1.6500-01
-1.2	4.7400-04	9.7600-05	1.3900-01	4.3300-08	7.2100-01	1.3900-01
-1.0	8.2500-04	1.3400-04	1.1600-01	2.9300-08	7.6600-01	1.1700-01
-.8	1.4100-03	1.8200-04	9.6900-02	1.9800-08	8.0400-01	9.7100-02
-.6	2.3700-03	2.4300-04	8.0300-02	1.3400-08	8.3700-01	8.0500-02
-.4	3.9300-03	3.2300-04	6.6300-02	9.1100-09	8.6300-01	6.6600-02
-.2	6.4400-03	4.2500-04	5.4500-02	6.2300-09	8.8400-01	5.4900-02
.0	1.0400-02	5.5500-04	4.4800-02	4.2900-09	8.9900-01	4.5300-02
.2	1.6600-02	7.1900-04	3.6700-02	2.9800-09	9.0800-01	3.7400-02
.4	2.6200-02	9.2300-04	3.0100-02	2.0900-09	9.1200-01	3.1000-02
.6	4.0500-02	1.1700-03	2.4600-02	1.4900-09	9.0800-01	2.5800-02
.8	6.1100-02	1.4700-03	2.0100-02	1.0700-09	8.9600-01	2.1600-02
1.0	9.0000-02	1.8100-03	1.6400-02	7.8500-10	8.7400-01	1.8300-02
1.2	1.2800-01	2.1900-03	1.3400-02	5.8700-10	8.4000-01	1.5600-02
1.4	1.7700-01	2.6000-03	1.0900-02	4.4900-10	7.9600-01	1.3500-02
1.6	2.3600-01	3.0500-03	8.9100-03	3.5400-10	7.4000-01	1.2000-02
1.8	3.0400-01	3.5600-03	7.3000-03	2.9200-10	6.7400-01	1.0900-02
2.0	3.8000-01	4.2200-03	6.0500-03	2.6100-10	5.9900-01	1.0300-02
2.2	4.6200-01	5.2300-03	5.1800-03	2.7300-10	5.1700-01	1.0400-02

T= 14100

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0445+00	3.9514+01	4.3558+01	1.2981+02	-4.6803+00	4.0448+00
-6.8	4.0282+00	3.9098+01	4.3127+01	1.2753+02	-4.4821+00	4.0286+00
-6.6	4.0176+00	3.8828+01	4.2846+01	1.2541+02	-4.2832+00	4.0181+00
-6.4	4.0106+00	3.8654+01	4.2664+01	1.2339+02	-4.0840+00	4.0112+00
-6.2	4.0059+00	3.8540+01	4.2546+01	1.2143+02	-3.8845+00	4.0067+00
-6.0	4.0025+00	3.8464+01	4.2466+01	1.1951+02	-3.6848+00	4.0035+00
-5.8	3.9999+00	3.8410+01	4.2410+01	1.1761+02	-3.4851+00	4.0011+00
-5.6	3.9973+00	3.8366+01	4.2364+01	1.1573+02	-3.2854+00	3.9989+00
-5.4	3.9945+00	3.8325+01	4.2320+01	1.1384+02	-3.0857+00	3.9965+00
-5.2	3.9909+00	3.8277+01	4.2268+01	1.1196+02	-2.8861+00	3.9934+00
-5.0	3.9857+00	3.8213+01	4.2198+01	1.1006+02	-2.6867+00	3.9888+00
-4.8	3.9780+00	3.8119+01	4.2097+01	1.0813+02	-2.4875+00	3.9820+00
-4.6	3.9666+00	3.7978+01	4.1944+01	1.0616+02	-2.2888+00	3.9715+00
-4.4	3.9493+00	3.7764+01	4.1714+01	1.0412+02	-2.0907+00	3.9554+00
-4.2	3.9236+00	3.7444+01	4.1367+01	1.0199+02	-1.8935+00	3.9311+00
-4.0	3.8858+00	3.6969+01	4.0855+01	9.9714+01	-1.6977+00	3.8951+00
-3.8	3.8320+00	3.6288+01	4.0120+01	9.7256+01	-1.5038+00	3.8432+00
-3.6	3.7582+00	3.5348+01	3.9106+01	9.4567+01	-1.3122+00	3.7714+00
-3.4	3.6615+00	3.4112+01	3.7774+01	9.1622+01	-1.1235+00	3.6769+00
-3.2	3.5423+00	3.2581+01	3.6123+01	8.8431+01	-9.3790-01	3.5596+00
-3.0	3.4039+00	3.0798+01	3.4201+01	8.5047+01	-7.5521-01	3.4229+00
-2.8	3.2530+00	2.8847+01	3.2100+01	8.1563+01	-5.7490-01	3.2732+00
-2.6	3.0975+00	2.6833+01	2.9930+01	7.8087+01	-3.9617-01	3.1185+00
-2.4	2.9453+00	2.4856+01	2.7801+01	7.4719+01	-2.1805-01	2.9665+00
-2.2	2.8075+00	2.2996+01	2.5798+01	7.1536+01	-3.9637-02	2.8235+00
-2.0	2.6729+00	2.1305+01	2.3978+01	6.8585+01	1.3981-01	2.6933+00
-1.8	2.5586+00	1.9809+01	2.2368+01	6.5885+01	3.2082-01	2.5781+00
-1.6	2.4598+00	1.8515+01	2.0975+01	6.3436+01	5.0371-01	2.4783+00
-1.4	2.3758+00	1.7413+01	1.9788+01	6.1220+01	6.8863-01	2.3932+00
-1.2	2.3053+00	1.6485+01	1.8791+01	5.9216+01	8.7554-01	2.3214+00
-1.0	2.2465+00	1.5712+01	1.7958+01	5.7395+01	1.0643+00	2.2614+00
-.8	2.1976+00	1.5069+01	1.7266+01	5.5729+01	1.2548+00	2.2112+00
-.6	2.1567+00	1.4533+01	1.6690+01	5.4191+01	1.4466+00	2.1690+00
-.4	2.1220+00	1.4083+01	1.6205+01	5.2756+01	1.6396+00	2.1329+00
-.2	2.0916+00	1.3696+01	1.5788+01	5.1399+01	1.8333+00	2.1010+00
.0	2.0636+00	1.3349+01	1.5413+01	5.0095+01	2.0274+00	2.0711+00
.2	2.0357+00	1.3018+01	1.5054+01	4.8820+01	2.2215+00	2.0410+00
.4	2.0056+00	1.2678+01	1.4684+01	4.7550+01	2.4151+00	2.0078+00
.6	1.9710+00	1.2302+01	1.4273+01	4.6257+01	2.6075+00	1.9688+00
.8	1.9296+00	1.1864+01	1.3793+01	4.4921+01	2.7983+00	1.9212+00
1.0	1.8805+00	1.1346+01	1.3226+01	4.3525+01	2.9871+00	1.8630+00
1.2	1.8244+00	1.0743+01	1.2567+01	4.2068+01	3.1739+00	1.7938+00
1.4	1.7647+00	1.0066+01	1.1830+01	4.0565+01	3.3595+00	1.7150+00
1.6	1.7071+00	9.3406+00	1.1048+01	3.9041+01	3.5451+00	1.6297+00
1.8	1.6596+00	8.6003+00	1.0260+01	3.7526+01	3.7328+00	1.5418+00
2.0	1.6317+00	7.8771+00	9.5088+00	3.6046+01	3.9255+00	1.4552+00
2.2	1.6353+00	7.1994+00	8.8347+00	3.4617+01	4.1264+00	1.3730+00

T= 14200

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.6900-18	3.2900-14	4.8000-01	1.3200-02	2.6700-05	5.0700-01
-6.8	6.7700-18	8.3900-14	4.8700-01	8.5100-03	4.2500-05	5.0400-01
-6.6	2.7000-17	2.1300-13	4.9200-01	5.4600-03	6.7600-05	5.0300-01
-6.4	1.0800-16	5.3800-13	4.9500-01	3.4800-03	1.0700-04	5.0200-01
-6.2	4.2900-16	1.3500-12	4.9700-01	2.2100-03	1.7000-04	5.0100-01
-6.0	1.7100-15	3.4100-12	4.9800-01	1.4000-03	2.7000-04	5.0100-01
-5.8	6.7900-15	8.5600-12	4.9800-01	8.8700-04	4.2700-04	5.0000-01
-5.6	2.7000-14	2.1500-11	4.9900-01	5.6100-04	6.7700-04	5.0000-01
-5.4	1.0700-13	5.3900-11	4.9900-01	3.5500-04	1.0700-03	5.0000-01
-5.2	4.2300-13	1.3500-10	4.9900-01	2.2500-04	1.6900-03	4.9900-01
-5.0	1.6700-12	3.3700-10	4.9800-01	1.4200-04	2.6700-03	4.9900-01
-4.8	6.5600-12	8.3900-10	4.9800-01	9.0100-05	4.2100-03	4.9800-01
-4.6	2.5600-11	2.0800-09	4.9700-01	5.7200-05	6.6200-03	4.9700-01
-4.4	9.8900-11	5.1200-09	4.9500-01	3.6400-05	1.0400-02	4.9500-01
-4.2	3.7700-10	1.2500-08	4.9200-01	2.3200-05	1.6100-02	4.9200-01
-4.0	1.4000-09	2.9900-08	4.8800-01	1.4800-05	2.4800-02	4.8800-01
-3.8	5.0600-09	7.0100-08	4.8100-01	9.5400-06	3.7600-02	4.8100-01
-3.6	1.7500-08	1.6000-07	4.7200-01	6.1800-06	5.6100-02	4.7200-01
-3.4	5.7600-08	3.5000-07	4.5900-01	4.0400-06	8.1700-02	4.5900-01
-3.2	1.7800-07	7.3400-07	4.4200-01	2.6600-06	1.1600-01	4.4200-01
-3.0	5.1000-07	1.4600-06	4.2100-01	1.7700-06	1.5900-01	4.2100-01
-2.8	1.3600-06	2.7600-06	3.9500-01	1.1800-06	2.1100-01	3.9500-01
-2.6	3.3800-06	4.9400-06	3.6500-01	7.9600-07	2.7000-01	3.6500-01
-2.4	7.8300-06	8.4200-06	3.3300-01	5.3800-07	3.3500-01	3.3300-01
-2.2	1.7100-05	1.3700-05	2.9900-01	3.6500-07	4.0300-01	2.9900-01
-2.0	3.5300-05	2.1500-05	2.6400-01	2.4700-07	4.7100-01	2.6400-01
-1.8	6.9800-05	3.2500-05	2.3100-01	1.6700-07	5.3800-01	2.3100-01
-1.6	1.3300-04	4.7700-05	1.9900-01	1.1300-07	6.0100-01	1.9900-01
-1.4	2.4400-04	6.8300-05	1.7000-01	7.6700-08	6.5900-01	1.7000-01
-1.2	4.3700-04	9.5700-05	1.4400-01	5.1800-08	7.1100-01	1.4400-01
-1.0	7.6300-04	1.3200-04	1.2100-01	3.5000-08	7.5700-01	1.2100-01
-.8	1.3100-03	1.7900-04	1.0100-01	2.3700-08	7.9700-01	1.0100-01
-.6	2.2100-03	2.4100-04	8.3700-02	1.6100-08	8.3000-01	8.3900-02
-.4	3.6700-03	3.2000-04	6.9100-02	1.1000-08	8.5700-01	6.9500-02
-.2	6.0300-03	4.2300-04	5.7000-02	7.5000-09	8.7900-01	5.7400-02
.0	9.7800-03	5.5300-04	4.6800-02	5.1700-09	8.9500-01	4.7400-02
.2	1.5600-02	7.1800-04	3.8400-02	3.6000-09	9.0600-01	3.9200-02
.4	2.4700-02	9.2400-04	3.1500-02	2.5300-09	9.1000-01	3.2500-02
.6	3.8200-02	1.1800-03	2.5800-02	1.8000-09	9.0800-01	2.7000-02
.8	5.8000-02	1.4800-03	2.1200-02	1.3000-09	8.9700-01	2.2600-02
1.0	8.5700-02	1.8300-03	1.7300-02	9.5900-10	8.7600-01	1.9100-02
1.2	1.2300-01	2.2200-03	1.4200-02	7.1900-10	8.4400-01	1.6400-02
1.4	1.7000-01	2.6600-03	1.1600-02	5.5300-10	8.0100-01	1.4200-02
1.6	2.2800-01	3.1400-03	9.4600-03	4.4000-10	7.4700-01	1.2600-02
1.8	2.9600-01	3.6800-03	7.7800-03	3.6700-10	6.8100-01	1.1500-02
2.0	3.7100-01	4.3900-03	6.4800-03	3.3300-10	6.0700-01	1.0900-02
2.2	4.5200-01	5.4900-03	5.5900-03	3.5600-10	5.2500-01	1.1100-02

T= 14200

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0530+00	3.9499+01	4.3552+01	1.3007+02	-4.6763+00	4.0533+00
-6.8	4.0338+00	3.9012+01	4.3046+01	1.2772+02	-4.4784+00	4.0342+00
-6.6	4.0212+00	3.8694+01	4.2715+01	1.2555+02	-4.2798+00	4.0217+00
-6.4	4.0129+00	3.8488+01	4.2501+01	1.2349+02	-4.0807+00	4.0136+00
-6.2	4.0074+00	3.8354+01	4.2361+01	1.2151+02	-3.8812+00	4.0082+00
-6.0	4.0036+00	3.8265+01	4.2269+01	1.1958+02	-3.6817+00	4.0046+00
-5.8	4.0006+00	3.8204+01	4.2204+01	1.1767+02	-3.4820+00	4.0019+00
-5.6	3.9980+00	3.8156+01	4.2154+01	1.1579+02	-3.2823+00	3.9996+00
-5.4	3.9952+00	3.8114+01	4.2109+01	1.1390+02	-3.0826+00	3.9977+00
-5.2	3.9917+00	3.8067+01	4.2059+01	1.1202+02	-2.8830+00	3.9942+00
-5.0	3.9868+00	3.8006+01	4.1993+01	1.1012+02	-2.6835+00	3.9899+00
-4.8	3.9797+00	3.7920+01	4.1899+01	1.0820+02	-2.4843+00	3.9836+00
-4.6	3.9691+00	3.7790+01	4.1759+01	1.0624+02	-2.2854+00	3.9740+00
-4.4	3.9531+00	3.7595+01	4.1548+01	1.0422+02	-2.0872+00	3.9592+00
-4.2	3.9293+00	3.7300+01	4.1230+01	1.0211+02	-1.8898+00	3.9368+00
-4.0	3.8942+00	3.6864+01	4.0758+01	9.9870+01	-1.6937+00	3.9034+00
-3.8	3.8439+00	3.6233+01	4.0077+01	9.7456+01	-1.4993+00	3.8550+00
-3.6	3.7743+00	3.5354+01	3.9128+01	9.4823+01	-1.3073+00	3.7875+00
-3.4	3.6823+00	3.4187+01	3.7869+01	9.1938+01	-1.1180+00	3.6978+00
-3.2	3.5674+00	3.2723+01	3.6290+01	8.8804+01	-9.3176-01	3.5849+00
-3.0	3.4324+00	3.0997+01	3.4430+01	8.5465+01	-7.4851-01	3.4518+00
-2.8	3.2834+00	2.9086+01	3.2369+01	8.2007+01	-5.6778-01	3.3042+00
-2.6	3.1283+00	2.7091+01	3.0219+01	7.8536+01	-3.8880-01	3.1500+00
-2.4	2.9750+00	2.5114+01	2.8089+01	7.5153+01	-2.1062-01	2.9970+00
-2.2	2.8300+00	2.3239+01	2.6069+01	7.1942+01	-3.2325-02	2.8519+00
-2.0	2.6976+00	2.1523+01	2.4221+01	6.8954+01	1.4687-01	2.7190+00
-1.8	2.5802+00	1.9998+01	2.2579+01	6.6215+01	3.2754-01	2.6007+00
-1.6	2.4784+00	1.8673+01	2.1151+01	6.3725+01	5.1005-01	2.4978+00
-1.4	2.3915+00	1.7541+01	1.9933+01	6.1472+01	6.9457-01	2.4098+00
-1.2	2.3185+00	1.6587+01	1.8905+01	5.9434+01	8.8109-01	2.3355+00
-1.0	2.2575+00	1.5789+01	1.8046+01	5.7583+01	1.0695+00	2.2732+00
-.8	2.2067+00	1.5125+01	1.7332+01	5.5892+01	1.2596+00	2.2211+00
-.6	2.1643+00	1.4573+01	1.6738+01	5.4334+01	1.4512+00	2.1774+00
-.4	2.1284+00	1.4110+01	1.6238+01	5.2882+01	1.6440+00	2.1401+00
-.2	2.0972+00	1.3713+01	1.5810+01	5.1512+01	1.8375+00	2.1073+00
.0	2.0687+00	1.3360+01	1.5429+01	5.0200+01	2.0316+00	2.0770+00
.2	2.0408+00	1.3027+01	1.5068+01	4.8921+01	2.2257+00	2.0467+00
.4	2.0110+00	1.2689+01	1.4700+01	4.7650+01	2.4193+00	2.0138+00
.6	1.9771+00	1.2319+01	1.4296+01	4.6361+01	2.6119+00	1.9755+00
.8	1.9369+00	1.1891+01	1.3828+01	4.5031+01	2.8030+00	1.9289+00
1.0	1.8890+00	1.1385+01	1.3274+01	4.3645+01	2.9921+00	1.8720+00
1.2	1.8342+00	1.0795+01	1.2629+01	4.2197+01	3.1793+00	1.8039+00
1.4	1.7755+00	1.0130+01	1.1905+01	4.0700+01	3.3652+00	1.7260+00
1.6	1.7185+00	9.4123+00	1.1131+01	3.9179+01	3.5510+00	1.6410+00
1.8	1.6709+00	8.6753+00	1.0346+01	3.7662+01	3.7388+00	1.5529+00
2.0	1.6426+00	7.9514+00	9.5940+00	3.6176+01	3.9314+00	1.4656+00
2.2	1.6453+00	7.2704+00	8.9156+00	3.4739+01	4.1321+00	1.3824+00

T= 14300

LOG D	N2	N2+	N+	N++	N	E
-7.0	1.3300-18	2.8500-14	4.7700-01	1.5600-02	2.4300-05	5.0800-01
-6.8	5.3200-18	7.2700-14	4.8500-01	1.0100-02	3.8800-05	5.0500-01
-6.6	2.1300-17	1.8500-13	4.9000-01	6.4900-03	6.1700-05	5.0300-01
-6.4	8.4800-17	4.6700-13	4.9400-01	4.1400-03	9.7900-05	5.0200-01
-6.2	3.3800-16	1.1800-12	4.9600-01	2.6400-03	1.5500-04	5.0100-01
-6.0	1.3400-15	2.9700-12	4.9700-01	1.6700-03	2.4600-04	5.0100-01
-5.8	5.3500-15	7.4600-12	4.9800-01	1.0600-03	3.9000-04	5.0000-01
-5.6	2.1200-14	1.8700-11	4.9900-01	6.7100-04	6.1800-04	5.0000-01
-5.4	8.4200-14	4.6900-11	4.9900-01	4.2400-04	9.7900-04	5.0000-01
-5.2	3.3400-13	1.1800-10	4.9900-01	2.6800-04	1.5500-03	4.9900-01
-5.0	1.3200-12	2.9400-10	4.9900-01	1.7000-04	2.4400-03	4.9900-01
-4.8	5.1800-12	7.3200-10	4.9800-01	1.0800-04	3.8500-03	4.9800-01
-4.6	2.0200-11	1.8200-09	4.9700-01	6.8300-05	6.0600-03	4.9700-01
-4.4	7.8400-11	4.4800-09	4.9500-01	4.3400-05	9.4800-03	4.9500-01
-4.2	2.9900-10	1.0900-08	4.9300-01	2.7700-05	1.4800-02	4.9300-01
-4.0	1.1200-09	2.6300-08	4.8900-01	1.7700-05	2.2800-02	4.8900-01
-3.8	4.0700-09	6.2000-08	4.8300-01	1.1400-05	3.4700-02	4.8300-01
-3.6	1.4200-08	1.4200-07	4.7400-01	7.3600-06	5.1900-02	4.7400-01
-3.4	4.7300-08	3.1400-07	4.6200-01	4.8000-06	7.6000-02	4.6200-01
-3.2	1.4800-07	6.6400-07	4.4600-01	3.1600-06	1.0800-01	4.4600-01
-3.0	4.3000-07	1.3400-06	4.2500-01	2.0900-06	1.5000-01	4.2500-01
-2.8	1.1600-06	2.5500-06	4.0000-01	1.4000-06	2.0000-01	4.0000-01
-2.6	2.9300-06	4.6100-06	3.7100-01	9.4200-07	2.5700-01	3.7100-01
-2.4	6.8800-06	7.9400-06	3.3900-01	6.3700-07	3.2100-01	3.3900-01
-2.2	1.5200-05	1.3000-05	3.0600-01	4.3200-07	3.8900-01	3.0600-01
-2.0	3.1700-05	2.0600-05	2.7100-01	2.9300-07	4.5700-01	2.7100-01
-1.8	6.3200-05	3.1300-05	2.3800-01	1.9900-07	5.2400-01	2.3800-01
-1.6	1.2100-04	4.6300-05	2.0600-01	1.3500-07	5.8800-01	2.0600-01
-1.4	2.2400-04	6.6600-05	1.7600-01	9.1200-08	6.4700-01	1.7600-01
-1.2	4.0300-04	9.3800-05	1.4900-01	6.1800-08	7.0100-01	1.4900-01
-1.0	7.0700-04	1.3000-04	1.2600-01	4.1800-08	7.4800-01	1.2600-01
-.8	1.2200-03	1.7700-04	1.0500-01	2.8300-08	7.8900-01	1.0500-01
-.6	2.0600-03	2.3800-04	8.7100-02	1.9300-08	8.2300-01	8.7400-02
-.4	3.4300-03	3.1700-04	7.2100-02	1.3100-08	8.5200-01	7.2400-02
-.2	5.6500-03	4.2000-04	5.9500-02	9.0100-09	8.7500-01	5.9900-02
.0	9.1700-03	5.5000-04	4.8900-02	6.2200-09	8.9200-01	4.9500-02
.2	1.4700-02	7.1600-04	4.0200-02	4.3400-09	9.0300-01	4.0900-02
.4	2.3300-02	9.2400-04	3.3000-02	3.0600-09	9.0900-01	3.4000-02
.6	3.6200-02	1.1800-03	2.7100-02	2.1800-09	9.0700-01	2.8300-02
.8	5.5000-02	1.4900-03	2.2200-02	1.5800-09	8.9800-01	2.3700-02
1.0	8.1700-02	1.8500-03	1.8200-02	1.1700-09	8.7800-01	2.0100-02
1.2	1.1800-01	2.2600-03	1.4900-02	8.8000-10	8.4800-01	1.7200-02
1.4	1.6400-01	2.7100-03	1.2200-02	6.8100-10	8.0600-01	1.4900-02
1.6	2.2100-01	3.2200-03	1.0000-02	5.4600-10	7.5300-01	1.3200-02
1.8	2.8700-01	3.8100-03	8.2800-03	4.6000-10	6.8900-01	1.2100-02
2.0	3.6200-01	4.5700-03	6.9300-03	4.2400-10	6.1500-01	1.1500-02
2.2	4.4300-01	5.7700-03	6.0300-03	4.6500-10	5.3300-01	1.1800-02



T= 14300

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0628+00	3.9520+01	4.3582+01	1.3037+02	-4.6722+00	4.0631+00
-6.8	4.0402+00	3.8950+01	4.2991+01	1.2793+02	-4.4747+00	4.0407+00
-6.6	4.0254+00	3.8577+01	4.2602+01	1.2570+02	-4.2763+00	4.0259+00
-6.4	4.0156+00	3.8334+01	4.2350+01	1.2361+02	-4.0773+00	4.0163+00
-6.2	4.0092+00	3.8177+01	4.2186+01	1.2160+02	-3.8780+00	4.0100+00
-6.0	4.0048+00	3.8073+01	4.2078+01	1.1966+02	-3.6785+00	4.0057+00
-5.8	4.0015+00	3.8003+01	4.2004+01	1.1774+02	-3.4788+00	4.0027+00
-5.6	3.9987+00	3.7951+01	4.1949+01	1.1585+02	-3.2791+00	4.0002+00
-5.4	3.9959+00	3.7906+01	4.1902+01	1.1396+02	-3.0795+00	3.9978+00
-5.2	3.9925+00	3.7860+01	4.1852+01	1.1208+02	-2.8798+00	3.9949+00
-5.0	3.9879+00	3.7802+01	4.1790+01	1.1018+02	-2.6803+00	3.9910+00
-4.8	3.9812+00	3.7721+01	4.1703+01	1.0826+02	-2.4810+00	3.9851+00
-4.6	3.9714+00	3.7602+01	4.1574+01	1.0631+02	-2.2821+00	3.9762+00
-4.4	3.9566+00	3.7423+01	4.1380+01	1.0431+02	-2.0837+00	3.9626+00
-4.2	3.9345+00	3.7153+01	4.1087+01	1.0222+02	-1.8862+00	3.9420+00
-4.0	3.9019+00	3.6751+01	4.0652+01	1.0001+02	-1.6898+00	3.9111+00
-3.8	3.8549+00	3.6166+01	4.0021+01	9.7644+01	-1.4951+00	3.8660+00
-3.6	3.7893+00	3.5345+01	3.9135+01	9.5062+01	-1.3025+00	3.8026+00
-3.4	3.7018+00	3.4245+01	3.7947+01	9.2236+01	-1.1126+00	3.7174+00
-3.2	3.5914+00	3.2848+01	3.6440+01	8.9159+01	-9.2581-01	3.6091+00
-3.0	3.4600+00	3.1181+01	3.4641+01	8.5867+01	-7.4199-01	3.4797+00
-2.8	3.3132+00	2.9313+01	3.2626+01	8.2439+01	-5.6081-01	3.3345+00
-2.6	3.1588+00	2.7340+01	3.0499+01	7.8976+01	-3.8155-01	3.1810+00
-2.4	3.0046+00	2.5366+01	2.8371+01	7.5583+01	-2.0328-01	3.0273+00
-2.2	2.8576+00	2.3479+01	2.6337+01	7.2346+01	-2.5063-02	2.8803+00
-2.0	2.7226+00	2.1742+01	2.4464+01	6.9324+01	1.5391-01	2.7448+00
-1.8	2.6021+00	2.0189+01	2.2791+01	6.6546+01	3.3427-01	2.6236+00
-1.6	2.4973+00	1.8833+01	2.1331+01	6.4017+01	5.1640-01	2.5177+00
-1.4	2.4076+00	1.7672+01	2.0080+01	6.1727+01	7.0052-01	2.4269+00
-1.2	2.3317+00	1.6690+01	1.9022+01	5.9655+01	8.8665-01	2.3499+00
-1.0	2.2687+00	1.5869+01	1.8137+01	5.7774+01	1.0747+00	2.2853+00
-.8	2.2160+00	1.5185+01	1.7401+01	5.6058+01	1.2645+00	2.2313+00
-.6	2.1721+00	1.4615+01	1.6787+01	5.4478+01	1.4558+00	2.1860+00
-.4	2.1350+00	1.4138+01	1.6273+01	5.3009+01	1.6483+00	2.1475+00
-.2	2.1030+00	1.3731+01	1.5834+01	5.1627+01	1.8418+00	2.1138+00
.0	2.0739+00	1.3371+01	1.5445+01	5.0305+01	2.0357+00	2.0828+00
.2	2.0458+00	1.3036+01	1.5082+01	4.9021+01	2.2298+00	2.0523+00
.4	2.0163+00	1.2699+01	1.4715+01	4.7749+01	2.4235+00	2.0197+00
.6	1.9831+00	1.2334+01	1.4317+01	4.6463+01	2.6163+00	1.9820+00
.8	1.9439+00	1.1916+01	1.3860+01	4.5140+01	2.8076+00	1.9365+00
1.0	1.8973+00	1.1422+01	1.3320+01	4.3762+01	2.9971+00	1.8807+00
1.2	1.8438+00	1.0845+01	1.2689+01	4.2324+01	3.1846+00	1.8138+00
1.4	1.7861+00	1.0191+01	1.1977+01	4.0834+01	3.3708+00	1.7367+00
1.6	1.7296+00	9.4818+00	1.1211+01	3.9315+01	3.5569+00	1.6522+00
1.8	1.6821+00	8.7486+00	1.0431+01	3.7797+01	3.7448+00	1.5639+00
2.0	1.6534+00	8.0247+00	9.6781+00	3.6306+01	3.9373+00	1.4760+00
2.2	1.6552+00	7.3409+00	8.9961+00	3.4862+01	4.1378+00	1.3918+00

T= 14400

LDG D	N2	N2+	N+	N++	N	E
-7.0	1.0500-18	2.4600-14	4.7300-01	1.8300-02	2.2200-05	5.0900-01
-6.8	4.1900-18	6.3100-14	4.8200-01	1.1900-02	3.5400-05	5.0600-01
-6.6	1.6800-17	1.6100-13	4.8800-01	7.6900-03	5.6300-05	5.0400-01
-6.4	6.6900-17	4.0700-13	4.9300-01	4.9200-03	8.9500-05	5.0200-01
-6.2	2.6700-16	1.0300-12	4.9500-01	3.1400-03	1.4200-04	5.0100-01
-6.0	1.0600-15	2.5900-12	4.9700-01	1.9900-03	2.2500-04	5.0100-01
-5.8	4.2200-15	6.5000-12	4.9800-01	1.2600-03	3.5700-04	5.0000-01
-5.6	1.6800-14	1.6300-11	4.9900-01	7.9900-04	5.6600-04	5.0000-01
-5.4	6.6600-14	4.1000-11	4.9900-01	5.0600-04	8.9500-04	5.0000-01
-5.2	2.6400-13	1.0300-10	4.9900-01	3.2000-04	1.4200-03	4.9900-01
-5.0	1.0400-12	2.5700-10	4.9900-01	2.0300-04	2.2400-03	4.9900-01
-4.8	4.1000-12	6.4000-10	4.9800-01	1.2800-04	3.5300-03	4.9800-01
-4.6	1.6100-11	1.5900-09	4.9700-01	8.1400-05	5.5500-03	4.9700-01
-4.4	6.2300-11	3.9200-09	4.9600-01	5.1700-05	8.6900-03	4.9600-01
-4.2	2.3900-10	9.5900-09	4.9300-01	3.2900-05	1.3500-02	4.9300-01
-4.0	8.9700-10	2.3200-08	4.8900-01	2.1100-05	2.0900-02	4.9000-01
-3.8	3.2800-09	5.4800-08	4.8400-01	1.3500-05	3.2000-02	4.8400-01
-3.6	1.1600-08	1.2600-07	4.7600-01	8.7400-06	4.8100-02	4.7600-01
-3.4	3.8800-08	2.8200-07	4.6500-01	5.6900-06	7.0700-02	4.6500-01
-3.2	1.2300-07	6.0100-07	4.4900-01	3.7400-06	1.0100-01	4.4900-01
-3.0	3.6200-07	1.2200-06	4.3000-01	2.4800-06	1.4100-01	4.3000-01
-2.8	9.9500-07	2.3600-06	4.0500-01	1.6600-06	1.8900-01	4.0500-01
-2.6	2.5400-06	4.3100-06	3.7700-01	1.1100-06	2.4500-01	3.7700-01
-2.4	6.0400-06	7.4800-06	3.4600-01	7.5300-07	3.0800-01	3.4600-01
-2.2	1.3500-05	1.2400-05	3.1200-01	5.1100-07	3.7500-01	3.1200-01
-2.0	2.8400-05	1.9700-05	2.7800-01	3.4700-07	4.4300-01	2.7800-01
-1.8	5.7200-05	3.0200-05	2.4400-01	2.3500-07	5.1100-01	2.4400-01
-1.6	1.1000-04	4.4900-05	2.1200-01	1.6000-07	5.7600-01	2.1200-01
-1.4	2.0500-04	6.4900-05	1.8200-01	1.0800-07	6.3600-01	1.8200-01
-1.2	3.7100-04	9.1800-05	1.5500-01	7.3400-08	6.9000-01	1.5500-01
-1.0	6.5500-04	1.2700-04	1.3000-01	4.9800-08	7.3900-01	1.3000-01
-.8	1.1300-03	1.7400-04	1.0900-01	3.3800-08	7.8100-01	1.0900-01
-.6	1.9200-03	2.3500-04	9.0700-02	2.3000-08	8.1600-01	9.0900-02
-.4	3.2100-03	3.1400-04	7.5100-02	1.5700-08	8.4600-01	7.5400-02
-.2	5.2900-03	4.1700-04	6.2000-02	1.0800-08	8.7000-01	6.2500-02
.0	8.6200-03	5.4700-04	5.1100-02	7.4700-09	8.8800-01	5.1700-02
.2	1.3900-02	7.1400-04	4.2100-02	5.2200-09	9.0100-01	4.2800-02
.4	2.2000-02	9.2300-04	3.4600-02	3.6800-09	9.0700-01	3.5500-02
.6	3.4200-02	1.1800-03	2.8400-02	2.6400-09	9.0700-01	2.9600-02
.8	5.2200-02	1.5000-03	2.3300-02	1.9200-09	8.9800-01	2.4800-02
1.0	7.7800-02	1.8700-03	1.9200-02	1.4200-09	8.8000-01	2.1000-02
1.2	1.1300-01	2.2900-03	1.5700-02	1.0700-09	8.5100-01	1.8000-02
1.4	1.5800-01	2.7700-03	1.2900-02	8.3600-10	8.1100-01	1.5700-02
1.6	2.1300-01	3.3000-03	1.0600-02	6.7500-10	7.5900-01	1.3900-02
1.8	2.7900-01	3.9300-03	8.8000-03	5.7500-10	6.9600-01	1.2700-02
2.0	3.5300-01	4.7500-03	7.4100-03	5.3800-10	6.2300-01	1.2200-02
2.2	4.3400-01	6.0500-03	6.5000-03	6.0500-10	5.4100-01	1.2500-02

$T = 14400$ 

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0741+00	3.9578+01	4.3652+01	1.3070+02	-4.6680+00	4.0745+00
-6.8	4.0477+00	3.8916+01	4.2964+01	1.2817+02	-4.4708+00	4.0482+00
-6.6	4.0303+00	3.8479+01	4.2510+01	1.2587+02	-4.2727+00	4.0308+00
-6.4	4.0188+00	3.8195+01	4.2213+01	1.2374+02	-4.0739+00	4.0195+00
-6.2	4.0113+00	3.8010+01	4.2021+01	1.2170+02	-3.8748+00	4.0120+00
-6.0	4.0061+00	3.7889+01	4.1895+01	1.1974+02	-3.6753+00	4.0071+00
-5.8	4.0024+00	3.7808+01	4.1810+01	1.1781+02	-3.4757+00	4.0036+00
-5.6	3.9994+00	3.7750+01	4.1749+01	1.1591+02	-3.2760+00	4.0010+00
-5.4	3.9965+00	3.7702+01	4.1699+01	1.1402+02	-3.0764+00	3.9985+00
-5.2	3.9932+00	3.7655+01	4.1648+01	1.1213+02	-2.8767+00	3.9956+00
-5.0	3.9889+00	3.7600+01	4.1589+01	1.1024+02	-2.6772+00	3.9919+00
-4.8	3.9827+00	3.7525+01	4.1507+01	1.0833+02	-2.4779+00	3.9865+00
-4.6	3.9735+00	3.7415+01	4.1388+01	1.0639+02	-2.2789+00	3.9783+00
-4.4	3.9598+00	3.7250+01	4.1210+01	1.0440+02	-2.0804+00	3.9658+00
-4.2	3.9393+00	3.7002+01	4.0941+01	1.0233+02	-1.8826+00	3.9467+00
-4.0	3.9090+00	3.6631+01	4.0540+01	1.0015+02	-1.6860+00	3.9181+00
-3.8	3.8650+00	3.6090+01	3.9955+01	9.7819+01	-1.4909+00	3.8761+00
-3.6	3.8033+00	3.5324+01	3.9127+01	9.5287+01	-1.2979+00	3.8166+00
-3.4	3.7203+00	3.4288+01	3.8008+01	9.2518+01	-1.1075+00	3.7359+00
-3.2	3.6142+00	3.2958+01	3.6572+01	8.9498+01	-9.2003-01	3.6321+00
-3.0	3.4866+00	3.1351+01	3.4837+01	8.6255+01	-7.3564-01	3.5066+00
-2.8	3.3423+00	2.9527+01	3.2870+01	8.2859+01	-5.5399-01	3.3640+00
-2.6	3.1888+00	2.7581+01	3.0770+01	7.9408+01	-3.7442-01	3.2117+00
-2.4	3.0340+00	2.5614+01	2.8648+01	7.6009+01	-1.9602-01	3.0576+00
-2.2	2.8853+00	2.3718+01	2.6604+01	7.2750+01	-1.7849-02	2.9089+00
-2.0	2.7477+00	2.1961+01	2.4708+01	6.9696+01	1.6093-01	2.7709+00
-1.8	2.6244+00	2.0381+01	2.3005+01	6.6880+01	3.4099-01	2.6468+00
-1.6	2.5165+00	1.8996+01	2.1513+01	6.4312+01	5.2277-01	2.5380+00
-1.4	2.4240+00	1.7806+01	2.0230+01	6.1985+01	7.0650-01	2.4442+00
-1.2	2.3457+00	1.6797+01	1.9143+01	5.9878+01	8.9224-01	2.3647+00
-1.0	2.2802+00	1.5951+01	1.8232+01	5.7967+01	1.0799+00	2.2978+00
-.8	2.2256+00	1.5246+01	1.7472+01	5.6225+01	1.2694+00	2.2418+00
-.6	2.1801+00	1.4660+01	1.6840+01	5.4624+01	1.4604+00	2.1948+00
-.4	2.1418+00	1.4168+01	1.6310+01	5.3138+01	1.6527+00	2.1550+00
-.2	2.1088+00	1.3751+01	1.5859+01	5.1742+01	1.8460+00	2.1203+00
.0	2.0792+00	1.3384+01	1.5463+01	5.0411+01	2.0399+00	2.0888+00
.2	2.0509+00	1.3045+01	1.5096+01	4.9121+01	2.2339+00	2.0580+00
.4	2.0216+00	1.2709+01	1.4730+01	4.7847+01	2.4277+00	2.0255+00
.6	1.9889+00	1.2349+01	1.4338+01	4.6564+01	2.6206+00	1.9884+00
.8	1.9506+00	1.1939+01	1.3890+01	4.5247+01	2.8121+00	1.9438+00
1.0	1.9053+00	1.1457+01	1.3363+01	4.3877+01	3.0019+00	1.8892+00
1.2	1.8530+00	1.0893+01	1.2746+01	4.2447+01	3.1898+00	1.8235+00
1.4	1.7964+00	1.0250+01	1.2047+01	4.0964+01	3.3764+00	1.7473+00
1.6	1.7405+00	9.5494+00	1.1290+01	3.9449+01	3.5626+00	1.6632+00
1.8	1.6932+00	8.8205+00	1.0514+01	3.7930+01	3.7507+00	1.5749+00
2.0	1.6641+00	8.0971+00	9.7611+00	3.6434+01	3.9431+00	1.4863+00
2.2	1.6651+00	7.4111+00	9.0762+00	3.4983+01	4.1434+00	1.4013+00

T= 14500

LOG D	N2	N2+	N+	N++	N	E
-7.0	8.2500-19	2.1300-14	4.6800-01	2.1400-02	2.0200-05	5.1100-01
-6.8	3.3200-18	5.4800-14	4.7900-01	1.4000-02	3.2300-05	5.0700-01
-6.6	1.3300-17	1.4000-13	4.8600-01	9.0900-03	5.1500-05	5.0500-01
-6.4	5.3000-17	3.5500-13	4.9100-01	5.8300-03	8.1900-05	5.0300-01
-6.2	2.1100-16	8.9600-13	4.9400-01	3.7200-03	1.3000-04	5.0200-01
-6.0	8.4200-16	2.2600-12	4.9600-01	2.3700-03	2.0600-04	5.0100-01
-5.8	3.3500-15	5.6800-12	4.9800-01	1.5000-03	3.2700-04	5.0100-01
-5.6	1.3300-14	1.4300-11	4.9800-01	9.5000-04	5.1800-04	5.0000-01
-5.4	5.2800-14	3.5800-11	4.9900-01	6.0100-04	8.2000-04	5.0000-01
-5.2	2.0900-13	8.9800-11	4.9900-01	3.8100-04	1.3000-03	5.0000-01
-5.0	8.2800-13	2.2500-10	4.9900-01	2.4100-04	2.0500-03	4.9900-01
-4.8	3.2600-12	5.6000-10	4.9800-01	1.5300-04	3.2300-03	4.9800-01
-4.6	1.2800-11	1.3900-09	4.9700-01	9.6800-05	5.0900-03	4.9800-01
-4.4	4.9700-11	3.4400-09	4.9600-01	6.1500-05	7.9800-03	4.9600-01
-4.2	1.9100-10	8.4400-09	4.9400-01	3.9200-05	1.2500-02	4.9400-01
-4.0	7.2000-10	2.0400-08	4.9000-01	2.5000-05	1.9300-02	4.9000-01
-3.8	2.6500-09	4.8500-08	4.8500-01	1.6100-05	2.9500-02	4.8500-01
-3.6	9.4000-09	1.1300-07	4.7800-01	1.0400-05	4.4500-02	4.7800-01
-3.4	3.1900-08	2.5300-07	4.6700-01	6.7400-06	6.5800-02	4.6700-01
-3.2	1.0200-07	5.4400-07	4.5300-01	4.4200-06	9.4700-02	4.5300-01
-3.0	3.0500-07	1.1200-06	4.3400-01	2.9300-06	1.3200-01	4.3400-01
-2.8	8.5000-07	2.1700-06	4.1100-01	1.9500-06	1.7900-01	4.1100-01
-2.6	2.2000-06	4.0200-06	3.8300-01	1.3100-06	2.3400-01	3.8300-01
-2.4	5.3000-06	7.0400-06	3.5200-01	8.8800-07	2.9600-01	3.5200-01
-2.2	1.2000-05	1.1800-05	3.1900-01	6.0200-07	3.6200-01	3.1900-01
-2.0	2.5500-05	1.8900-05	2.8500-01	4.0900-07	4.3000-01	2.8500-01
-1.8	5.1700-05	2.9100-05	2.5100-01	2.7800-07	4.9800-01	2.5100-01
-1.6	1.0100-04	4.3500-05	2.1800-01	1.8900-07	5.6300-01	2.1800-01
-1.4	1.8800-04	6.3200-05	1.8800-01	1.2800-07	6.2400-01	1.8800-01
-1.2	3.4200-04	8.9800-05	1.6000-01	8.7100-08	6.8000-01	1.6000-01
-1.0	6.0600-04	1.2500-04	1.3500-01	5.9100-08	7.2900-01	1.3500-01
-.8	1.0500-03	1.7200-04	1.1300-01	4.0200-08	7.7200-01	1.1300-01
-.6	1.7900-03	2.3300-04	9.4300-02	2.7400-08	8.0900-01	9.4500-02
-.4	3.0000-03	3.1200-04	7.8200-02	1.8700-08	8.4000-01	7.8500-02
-.2	4.9600-03	4.1400-04	6.4700-02	1.2900-08	8.6500-01	6.5100-02
.0	8.1000-03	5.4500-04	5.3300-02	8.9400-09	8.8400-01	5.3900-02
.2	1.3000-02	7.1200-04	4.3900-02	6.2500-09	8.9800-01	4.4600-02
.4	2.0700-02	9.2300-04	3.6200-02	4.4200-09	9.0500-01	3.7100-02
.6	3.2400-02	1.1900-03	2.9700-02	3.1700-09	9.0600-01	3.0900-02
.8	4.9600-02	1.5000-03	2.4500-02	2.3100-09	8.9800-01	2.6000-02
1.0	7.4200-02	1.8800-03	2.0100-02	1.7200-09	8.8200-01	2.2000-02
1.2	1.0800-01	2.3200-03	1.6600-02	1.3100-09	8.5500-01	1.8900-02
1.4	1.5100-01	2.8200-03	1.3600-02	1.0200-09	8.1600-01	1.6400-02
1.6	2.0600-01	3.3800-03	1.1300-02	8.3300-10	7.6500-01	1.4600-02
1.8	2.7100-01	4.0500-03	9.3600-03	7.1800-10	7.0300-01	1.3400-02
2.0	3.4400-01	4.9300-03	7.9200-03	6.8200-10	6.3000-01	1.2900-02
2.2	4.2500-01	6.3500-03	6.9900-03	7.8800-10	5.4900-01	1.3300-02

T= 14500

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.0871+00	3.9678+01	4.3765+01	1.3108+02	-4.6636+00	4.0875+00
-6.8	4.0564+00	3.8912+01	4.2968+01	1.2844+02	-4.4669+00	4.0568+00
-6.6	4.0360+00	3.8403+01	4.2439+01	1.2606+02	-4.2691+00	4.0365+00
-6.4	4.0225+00	3.8070+01	4.2093+01	1.2388+02	-4.0705+00	4.0232+00
-6.2	4.0137+00	3.7854+01	4.1867+01	1.2181+02	-3.8715+00	4.0144+00
-6.0	4.0077+00	3.7713+01	4.1720+01	1.1982+02	-3.6721+00	4.0087+00
-5.8	4.0035+00	3.7619+01	4.1622+01	1.1788+02	-3.4726+00	4.0047+00
-5.6	4.0002+00	3.7553+01	4.1553+01	1.1597+02	-3.2729+00	4.0018+00
-5.4	3.9972+00	3.7502+01	4.1499+01	1.1408+02	-3.0733+00	3.9992+00
-5.2	3.9940+00	3.7454+01	4.1448+01	1.1219+02	-2.8736+00	3.9964+00
-5.0	3.9898+00	3.7400+01	4.1390+01	1.1030+02	-2.6741+00	3.9928+00
-4.8	3.9840+00	3.7329+01	4.1313+01	1.0839+02	-2.4747+00	3.9877+00
-4.6	3.9754+00	3.7228+01	4.1203+01	1.0646+02	-2.2756+00	3.9802+00
-4.4	3.9627+00	3.7076+01	4.1039+01	1.0448+02	-2.0770+00	3.9686+00
-4.2	3.9436+00	3.6847+01	4.0791+01	1.0243+02	-1.8791+00	3.9510+00
-4.0	3.9154+00	3.6506+01	4.0421+01	1.0028+02	-1.6823+00	3.9245+00
-3.8	3.8744+00	3.6004+01	3.9879+01	9.7983+01	-1.4868+00	3.8854+00
-3.6	3.8163+00	3.5291+01	3.9107+01	9.5498+01	-1.2934+00	3.8296+00
-3.4	3.7375+00	3.4316+01	3.8053+01	9.2783+01	-1.1024+00	3.7533+00
-3.2	3.6359+00	3.3051+01	3.6687+01	8.9819+01	-9.1442-01	3.6540+00
-3.0	3.5121+00	3.1505+01	3.5017+01	8.6627+01	-7.2946-01	3.5325+00
-2.8	3.3706+00	2.9729+01	3.3100+01	8.3266+01	-5.4733-01	3.3928+00
-2.6	3.2183+00	2.7813+01	3.1031+01	7.9832+01	-3.6741-01	3.2418+00
-2.4	3.0633+00	2.5856+01	2.8920+01	7.6429+01	-1.8885-01	3.0875+00
-2.2	2.9130+00	2.3954+01	2.6867+01	7.3151+01	-1.0695-02	2.9374+00
-2.0	2.7730+00	2.2179+01	2.4952+01	7.0066+01	1.6792-01	2.7972+00
-1.8	2.6469+00	2.0574+01	2.3221+01	6.7214+01	3.4770-01	2.6703+00
-1.6	2.5361+00	1.9161+01	2.1697+01	6.4609+01	5.2913-01	2.5585+00
-1.4	2.4407+00	1.7942+01	2.0383+01	6.2245+01	7.1248-01	2.4619+00
-1.2	2.3598+00	1.6907+01	1.9266+01	6.0104+01	8.9785-01	2.3797+00
-1.0	2.2920+00	1.6036+01	1.8328+01	5.8163+01	1.0852+00	2.3105+00
-.8	2.2354+00	1.5310+01	1.7546+01	5.6395+01	1.2743+00	2.2525+00
-.6	2.1882+00	1.4706+01	1.6894+01	5.4772+01	1.4651+00	2.2038+00
-.4	2.1486+00	1.4200+01	1.6349+01	5.3269+01	1.6571+00	2.1626+00
-.2	2.1147+00	1.3772+01	1.5886+01	5.1858+01	1.8502+00	2.1270+00
.0	2.0844+00	1.3398+01	1.5482+01	5.0517+01	2.0440+00	2.0948+00
.2	2.0559+00	1.3055+01	1.5111+01	4.9221+01	2.2380+00	2.0637+00
.4	2.0267+00	1.2719+01	1.4745+01	4.7945+01	2.4318+00	2.0313+00
.6	1.9946+00	1.2363+01	1.4357+01	4.6663+01	2.6248+00	1.9947+00
.8	1.9572+00	1.1961+01	1.3918+01	4.5351+01	2.8166+00	1.9509+00
1.0	1.9130+00	1.1490+01	1.3403+01	4.3989+01	3.0067+00	1.8975+00
1.2	1.8620+00	1.0938+01	1.2800+01	4.2568+01	3.1949+00	1.8329+00
1.4	1.8064+00	1.0307+01	1.2114+01	4.1092+01	3.3818+00	1.7577+00
1.6	1.7513+00	9.6149+00	1.1365+01	3.9580+01	3.5683+00	1.6741+00
1.8	1.7041+00	8.8908+00	1.0595+01	3.8061+01	3.7565+00	1.5858+00
2.0	1.6747+00	8.1684+00	9.8431+00	3.6562+01	3.9489+00	1.4967+00
2.2	1.6750+00	7.4808+00	9.1557+00	3.5104+01	4.1490+00	1.4108+00

T= 14600

LOG D	N2	N2+	N+	N++	N	E
-7.0	6.5300-19	1.8400-14	4.6300-01	2.4900-02	1.8500-05	5.1200-01
-6.8	2.6300-18	4.7600-14	4.7500-01	1.6500-02	2.9600-05	5.0800-01
-6.6	1.0500-17	1.2200-13	4.8400-01	1.0700-02	4.7100-05	5.0500-01
-6.4	4.2100-17	3.1000-13	4.9000-01	6.8800-03	7.5000-05	5.0300-01
-6.2	1.6800-16	7.8400-13	4.9300-01	4.4000-03	1.1900-04	5.0200-01
-6.0	6.6900-16	1.9800-12	4.9600-01	2.8000-03	1.8900-04	5.0100-01
-5.8	2.6600-15	4.9800-12	4.9700-01	1.7800-03	3.0000-04	5.0100-01
-5.6	1.0600-14	1.2500-11	4.9800-01	1.1300-03	4.7500-04	5.0000-01
-5.4	4.2000-14	3.1400-11	4.9900-01	7.1300-04	7.5200-04	5.0000-01
-5.2	1.6700-13	7.8700-11	4.9900-01	4.5200-04	1.1900-03	5.0000-01
-5.0	6.5900-13	1.9700-10	4.9900-01	2.8600-04	1.8800-03	4.9900-01
-4.8	2.6000-12	4.9200-10	4.9800-01	1.8100-04	2.9700-03	4.9900-01
-4.6	1.0200-11	1.2200-09	4.9700-01	1.1500-04	4.6700-03	4.9800-01
-4.4	3.9700-11	3.0300-09	4.9600-01	7.2900-05	7.3300-03	4.9600-01
-4.2	1.5300-10	7.4300-09	4.9400-01	4.6400-05	1.1500-02	4.9400-01
-4.0	5.7900-10	1.8000-08	4.9100-01	2.9600-05	1.7800-02	4.9100-01
-3.8	2.1400-09	4.3000-08	4.8600-01	1.9000-05	2.7300-02	4.8600-01
-3.6	7.6600-09	1.0000-07	4.7900-01	1.2300-05	4.1200-02	4.7900-01
-3.4	2.6200-08	2.2700-07	4.6900-01	7.9600-06	6.1200-02	4.6900-01
-3.2	8.4900-08	4.9200-07	4.5600-01	5.2200-06	8.8500-02	4.5600-01
-3.0	2.5700-07	1.0200-06	4.3800-01	3.4500-06	1.2400-01	4.3800-01
-2.8	7.2600-07	2.0100-06	4.1500-01	2.3000-06	1.6900-01	4.1500-01
-2.6	1.9000-06	3.7400-06	3.8900-01	1.5400-06	2.2300-01	3.8900-01
-2.4	4.6500-06	6.6300-06	3.5800-01	1.0400-06	2.8300-01	3.5800-01
-2.2	1.0600-05	1.1200-05	3.2600-01	7.0800-07	3.4900-01	3.2600-01
-2.0	2.2900-05	1.8000-05	2.9200-01	4.8200-07	4.1700-01	2.9200-01
-1.8	4.6800-05	2.8000-05	2.5800-01	3.2800-07	4.8500-01	2.5800-01
-1.6	9.1700-05	4.2200-05	2.2500-01	2.2300-07	5.5000-01	2.2500-01
-1.4	1.7300-04	6.1600-05	1.9400-01	1.5200-07	6.1200-01	1.9400-01
-1.2	3.1600-04	8.7900-05	1.6500-01	1.0300-07	6.6900-01	1.6500-01
-1.0	5.6200-04	1.2300-04	1.4000-01	7.0000-08	7.2000-01	1.4000-01
-.8	9.7800-04	1.6900-04	1.1700-01	4.7700-08	7.6400-01	1.1800-01
-.6	1.6700-03	2.3000-04	9.7900-02	3.2500-08	8.0200-01	9.8200-02
-.4	2.8100-03	3.0900-04	8.1400-02	2.2300-08	8.3400-01	8.1700-02
-.2	4.6500-03	4.1100-04	6.7300-02	1.5400-08	8.6000-01	6.7800-02
.0	7.6100-03	5.4200-04	5.5600-02	1.0700-08	8.8000-01	5.6200-02
.2	1.2300-02	7.1000-04	4.5900-02	7.4800-09	8.9500-01	4.6600-02
.4	1.9600-02	9.2200-04	3.7800-02	5.3000-09	9.0300-01	3.8700-02
.6	3.0700-02	1.1900-03	3.1100-02	3.8100-09	9.0500-01	3.2300-02
.8	4.7100-02	1.5100-03	2.5600-02	2.7900-09	8.9900-01	2.7100-02
1.0	7.0700-02	1.9000-03	2.1100-02	2.0800-09	8.8300-01	2.3000-02
1.2	1.0300-01	2.3500-03	1.7400-02	1.5900-09	8.5700-01	1.9800-02
1.4	1.4600-01	2.8700-03	1.4400-02	1.2500-09	8.2000-01	1.7200-02
1.6	1.9900-01	3.4700-03	1.1900-02	1.0300-09	7.7000-01	1.5400-02
1.8	2.6300-01	4.1800-03	9.9300-03	8.9300-10	7.0900-01	1.4100-02
2.0	3.3600-01	5.1200-03	8.4500-03	8.6200-10	6.3700-01	1.3600-02
2.2	4.1600-01	6.6600-03	7.5200-03	1.0200-09	5.5600-01	1.4200-02

T = 14600

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.1019+00	3.9822+01	4.3924+01	1.3149+02	-4.6591+00	4.1023+00
-6.8	4.0664+00	3.8940+01	4.3006+01	1.2873+02	-4.4628+00	4.0668+00
-6.6	4.0426+00	3.8350+01	4.2393+01	1.2627+02	-4.2654+00	4.0431+00
-6.4	4.0268+00	3.7962+01	4.1989+01	1.2403+02	-4.0671+00	4.0275+00
-6.2	4.0165+00	3.7710+01	4.1726+01	1.2192+02	-3.8682+00	4.0172+00
-6.0	4.0095+00	3.7545+01	4.1555+01	1.1991+02	-3.6690+00	4.0105+00
-5.8	4.0047+00	3.7437+01	4.1441+01	1.1796+02	-3.4695+00	4.0059+00
-5.6	4.0011+00	3.7362+01	4.1363+01	1.1604+02	-3.2699+00	4.0026+00
-5.4	3.9980+00	3.7306+01	4.1304+01	1.1414+02	-3.0702+00	3.9999+00
-5.2	3.9947+00	3.7256+01	4.1251+01	1.1225+02	-2.8706+00	3.9971+00
-5.0	3.9907+00	3.7203+01	4.1194+01	1.1036+02	-2.6710+00	3.9937+00
-4.8	3.9852+00	3.7136+01	4.1121+01	1.0846+02	-2.4716+00	3.9889+00
-4.6	3.9772+00	3.7041+01	4.1018+01	1.0653+02	-2.2725+00	3.9819+00
-4.4	3.9653+00	3.6901+01	4.0867+01	1.0456+02	-2.0738+00	3.9712+00
-4.2	3.9476+00	3.6691+01	4.0638+01	1.0253+02	-1.8757+00	3.9549+00
-4.0	3.9213+00	3.6375+01	4.0297+01	1.0040+02	-1.6786+00	3.9303+00
-3.8	3.8830+00	3.5911+01	3.9794+01	9.8137+01	-1.4829+00	3.8940+00
-3.6	3.8284+00	3.5246+01	3.9074+01	9.5696+01	-1.2890+00	3.8417+00
-3.4	3.7537+00	3.4330+01	3.8083+01	9.3033+01	-1.0976+00	3.7695+00
-3.2	3.6564+00	3.3129+01	3.6785+01	9.0125+01	-9.0899-01	3.6747+00
-3.0	3.5366+00	3.1644+01	3.5180+01	8.6982+01	-7.2346-01	3.5573+00
-2.8	3.3980+00	2.9918+01	3.3316+01	8.3659+01	-5.4082-01	3.4207+00
-2.6	3.2472+00	2.8034+01	3.1281+01	8.0245+01	-3.6053-01	3.2714+00
-2.4	3.0922+00	2.6092+01	2.9184+01	7.6842+01	-1.8178-01	3.1172+00
-2.2	2.9406+00	2.4187+01	2.7127+01	7.3549+01	-3.6090-03	2.9659+00
-2.0	2.7985+00	2.2395+01	2.5194+01	7.0436+01	1.7487-01	2.8235+00
-1.8	2.6696+00	2.0767+01	2.3437+01	6.7550+01	3.5440-01	2.6940+00
-1.6	2.5559+00	1.9327+01	2.1883+01	6.4907+01	5.3550-01	2.5793+00
-1.4	2.4577+00	1.8081+01	2.0538+01	6.2507+01	7.1848-01	2.4799+00
-1.2	2.3742+00	1.7018+01	1.9392+01	6.0332+01	9.0346-01	2.3951+00
-1.0	2.3040+00	1.6124+01	1.8428+01	5.8361+01	1.0904+00	2.3235+00
-.8	2.2454+00	1.5377+01	1.7622+01	5.6567+01	1.2792+00	2.2634+00
-.6	2.1966+00	1.4754+01	1.6951+01	5.4922+01	1.4697+00	2.2130+00
-.4	2.1556+00	1.4234+01	1.6390+01	5.3400+01	1.6615+00	2.1705+00
-.2	2.1207+00	1.3794+01	1.5915+01	5.1976+01	1.8544+00	2.1338+00
.0	2.0898+00	1.3412+01	1.5502+01	5.0624+01	2.0481+00	2.1009+00
.2	2.0609+00	1.3065+01	1.5126+01	4.9321+01	2.2420+00	2.0695+00
.4	2.0318+00	1.2728+01	1.4760+01	4.8042+01	2.4358+00	2.0371+00
.6	2.0001+00	1.2376+01	1.4376+01	4.6761+01	2.6290+00	2.0009+00
.8	1.9636+00	1.1981+01	1.3945+01	4.5454+01	2.8210+00	1.9574+00
1.0	1.9205+00	1.1521+01	1.3442+01	4.4099+01	3.0114+00	1.9055+00
1.2	1.8707+00	1.0981+01	1.2852+01	4.2686+01	3.2000+00	1.8421+00
1.4	1.8162+00	1.0362+01	1.2178+01	4.1217+01	3.3871+00	1.7679+00
1.6	1.7618+00	9.6784+00	1.1440+01	3.9710+01	3.5739+00	1.6848+00
1.8	1.7149+00	8.9596+00	1.0674+01	3.8191+01	3.7622+00	1.5965+00
2.0	1.6852+00	8.2387+00	9.9240+00	3.6689+01	3.9546+00	1.5070+00
2.2	1.6847+00	7.5501+00	9.2349+00	3.5225+01	4.1545+00	1.4204+00

T= 14700

LOG D	N2	N2+	N+	N++	N	E
-7.0	5.1800-19	1.5900-14	4.5700-01	2.8900-02	1.6900-05	5.1400-01
-6.8	2.0900-18	4.1400-14	4.7100-01	1.9200-02	2.7000-05	5.1000-01
-6.6	8.3900-18	1.0600-13	4.8100-01	1.2600-02	4.3200-05	5.0600-01
-6.4	3.3500-17	2.7100-13	4.8800-01	8.1000-03	6.8800-05	5.0400-01
-6.2	1.3400-16	6.8600-13	4.9200-01	5.1900-03	1.0900-04	5.0300-01
-6.0	5.3300-16	1.7300-12	4.9500-01	3.3100-03	1.7300-04	5.0200-01
-5.8	2.1200-15	4.3600-12	4.9700-01	2.1000-03	2.7500-04	5.0100-01
-5.6	8.4400-15	1.1000-11	4.9800-01	1.3300-03	4.3600-04	5.0000-01
-5.4	3.3500-14	2.7500-11	4.9800-01	8.4400-04	6.9000-04	5.0000-01
-5.2	1.3300-13	6.9100-11	4.9900-01	5.3500-04	1.0900-03	5.0000-01
-5.0	5.2600-13	1.7300-10	4.9900-01	3.3800-04	1.7300-03	4.9900-01
-4.8	2.0800-12	4.3200-10	4.9800-01	2.1400-04	2.7300-03	4.9900-01
-4.6	8.1500-12	1.0700-09	4.9800-01	1.3600-04	4.2900-03	4.9800-01
-4.4	3.1800-11	2.6600-09	4.9600-01	8.6300-05	6.7400-03	4.9700-01
-4.2	1.2300-10	6.5500-09	4.9500-01	5.4900-05	1.0500-02	4.9500-01
-4.0	4.6600-10	1.5900-08	4.9200-01	3.5000-05	1.6400-02	4.9200-01
-3.8	1.7300-09	3.8100-08	4.8700-01	2.2500-05	2.5200-02	4.8700-01
-3.6	6.2400-09	8.9400-08	4.8100-01	1.4500-05	3.8200-02	4.8100-01
-3.4	2.1500-08	2.0300-07	4.7200-01	9.3900-06	5.6900-02	4.7200-01
-3.2	7.0500-08	4.4500-07	4.5900-01	6.1400-06	8.2800-02	4.5900-01
-3.0	2.1700-07	9.3000-07	4.4100-01	4.0600-06	1.1700-01	4.4200-01
-2.8	6.2000-07	1.8500-06	4.2000-01	2.7000-06	1.6000-01	4.2000-01
-2.6	1.6500-06	3.4800-06	3.9400-01	1.8100-06	2.1200-01	3.9400-01
-2.4	4.0700-06	6.2200-06	3.6400-01	1.2300-06	2.7100-01	3.6400-01
-2.2	9.4100-06	1.0600-05	3.3200-01	8.3200-07	3.3600-01	3.3200-01
-2.0	2.0500-05	1.7200-05	2.9800-01	5.6600-07	4.0300-01	2.9800-01
-1.8	4.2300-05	2.7000-05	2.6400-01	3.8500-07	4.7100-01	2.6400-01
-1.6	8.3500-05	4.0800-05	2.3100-01	2.6200-07	5.3800-01	2.3100-01
-1.4	1.5900-04	5.9900-05	2.0000-01	1.7900-07	6.0100-01	2.0000-01
-1.2	2.9100-04	8.5900-05	1.7100-01	1.2200-07	6.5800-01	1.7100-01
-1.0	5.2100-04	1.2100-04	1.4500-01	8.2800-08	7.1000-01	1.4500-01
-.8	9.1000-04	1.6700-04	1.2200-01	5.6400-08	7.5500-01	1.2200-01
-.6	1.5600-03	2.2700-04	1.0200-01	3.8600-08	7.9500-01	1.0200-01
-.4	2.6300-03	3.0500-04	8.4600-02	2.6500-08	8.2800-01	8.4900-02
-.2	4.3600-03	4.0700-04	7.0100-02	1.8300-08	8.5500-01	7.0500-02
.0	7.1600-03	5.3900-04	5.8000-02	1.2700-08	8.7600-01	5.8500-02
.2	1.1600-02	7.0700-04	4.7800-02	8.9200-09	8.9100-01	4.8600-02
.4	1.8500-02	9.2100-04	3.9500-02	6.3400-09	9.0100-01	4.0400-02
.6	2.9000-02	1.1900-03	3.2500-02	4.5700-09	9.0300-01	3.3700-02
.8	4.4700-02	1.5200-03	2.6800-02	3.3500-09	8.9900-01	2.8400-02
1.0	6.7400-02	1.9200-03	2.2200-02	2.5100-09	8.8400-01	2.4100-02
1.2	9.8700-02	2.3800-03	1.8300-02	1.9200-09	8.6000-01	2.0700-02
1.4	1.4000-01	2.9200-03	1.5100-02	1.5200-09	8.2400-01	1.8100-02
1.6	1.9200-01	3.5500-03	1.2600-02	1.2600-09	7.7600-01	1.6100-02
1.8	2.5500-01	4.3000-03	1.0500-02	1.1100-09	7.1600-01	1.4800-02
2.0	3.2700-01	5.3200-03	9.0200-03	1.0900-09	6.4400-01	1.4300-02
2.2	4.0700-01	6.9800-03	8.0900-03	1.3300-09	5.6300-01	1.5100-02



T= 14700

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.1188+00	4.0014+01	4.4133+01	1.3196+02	-4.6543+00	4.1191+00
-6.8	4.0779+00	3.9004+01	4.3082+01	1.2906+02	-4.4587+00	4.0783+00
-6.6	4.0502+00	3.8323+01	4.2373+01	1.2651+02	-4.2616+00	4.0507+00
-6.4	4.0318+00	3.7873+01	4.1904+01	1.2420+02	-4.0636+00	4.0324+00
-6.2	4.0197+00	3.7578+01	4.1598+01	1.2205+02	-3.8649+00	4.0205+00
-6.0	4.0116+00	3.7387+01	4.1399+01	1.2001+02	-3.6658+00	4.0126+00
-5.8	4.0062+00	3.7261+01	4.1267+01	1.1804+02	-3.4664+00	4.0073+00
-5.6	4.0021+00	3.7176+01	4.1178+01	1.1611+02	-3.2668+00	4.0036+00
-5.4	3.9988+00	3.7114+01	4.1112+01	1.1420+02	-3.0672+00	4.0006+00
-5.2	3.9954+00	3.7061+01	4.1057+01	1.1231+02	-2.8675+00	3.9978+00
-5.0	3.9915+00	3.7009+01	4.1000+01	1.1042+02	-2.6679+00	3.9945+00
-4.8	3.9863+00	3.6944+01	4.0931+01	1.0852+02	-2.4685+00	3.9900+00
-4.6	3.9788+00	3.6856+01	4.0835+01	1.0660+02	-2.2693+00	3.9835+00
-4.4	3.9678+00	3.6726+01	4.0694+01	1.0464+02	-2.0705+00	3.9736+00
-4.2	3.9513+00	3.6532+01	4.0483+01	1.0262+02	-1.8723+00	3.9585+00
-4.0	3.9268+00	3.6241+01	4.0168+01	1.0051+02	-1.6750+00	3.9357+00
-3.8	3.8909+00	3.5811+01	3.9702+01	9.8282+01	-1.4790+00	3.9019+00
-3.6	3.8396+00	3.5191+01	3.9031+01	9.5881+01	-1.2848+00	3.8529+00
-3.4	3.7689+00	3.4331+01	3.8100+01	9.3268+01	-1.0929+00	3.7847+00
-3.2	3.6759+00	3.3192+01	3.6868+01	9.0415+01	-9.0372-01	3.6943+00
-3.0	3.5602+00	3.1768+01	3.5329+01	8.7324+01	-7.1761-01	3.5811+00
-2.8	3.4247+00	3.0095+01	3.3519+01	8.4041+01	-5.3446-01	3.4478+00
-2.6	3.2757+00	2.8246+01	3.1522+01	8.0649+01	-3.5378-01	3.3004+00
-2.4	3.1209+00	2.6321+01	2.9442+01	7.7251+01	-1.7480-01	3.1466+00
-2.2	2.9682+00	2.4416+01	2.7384+01	7.3944+01	3.4157-03	2.9944+00
-2.0	2.8240+00	2.2611+01	2.5435+01	7.0806+01	1.8179-01	2.8501+00
-1.8	2.6926+00	2.0762+01	2.3654+01	6.7887+01	3.6108-01	2.7180+00
-1.6	2.5760+00	1.9496+01	2.2072+01	6.5208+01	5.4187-01	2.6005+00
-1.4	2.4750+00	1.8221+01	2.0696+01	6.2771+01	7.2449-01	2.4983+00
-1.2	2.3888+00	1.7133+01	1.9521+01	6.0563+01	9.0910-01	2.4107+00
-1.0	2.3163+00	1.6214+01	1.8530+01	5.8562+01	1.0957+00	2.3367+00
-.8	2.2557+00	1.5445+01	1.7701+01	5.6741+01	1.2842+00	2.2746+00
-.6	2.2051+00	1.4805+01	1.7010+01	5.5073+01	1.4744+00	2.2225+00
-.4	2.1628+00	1.4270+01	1.6433+01	5.3533+01	1.6659+00	2.1785+00
-.2	2.1268+00	1.3818+01	1.5945+01	5.2094+01	1.8586+00	2.1407+00
.0	2.0952+00	1.3428+01	1.5523+01	5.0732+01	2.0521+00	2.1070+00
.2	2.0659+00	1.3076+01	1.5142+01	4.9422+01	2.2460+00	2.0753+00
.4	2.0368+00	1.2738+01	1.4775+01	4.8139+01	2.4399+00	2.0429+00
.6	2.0055+00	1.2389+01	1.4394+01	4.6859+01	2.6332+00	2.0070+00
.8	1.9698+00	1.2001+01	1.3971+01	4.5556+01	2.8253+00	1.9648+00
1.0	1.9279+00	1.1551+01	1.3479+01	4.4208+01	3.0160+00	1.9135+00
1.2	1.8793+00	1.1023+01	1.2903+01	4.2803+01	3.2049+00	1.8512+00
1.4	1.8259+00	1.0415+01	1.2241+01	4.1342+01	3.3924+00	1.7780+00
1.6	1.7723+00	9.7412+00	1.1514+01	3.9839+01	3.5795+00	1.6956+00
1.8	1.7257+00	9.0282+00	1.0754+01	3.8321+01	3.7679+00	1.6074+00
2.0	1.6959+00	8.3094+00	1.0005+01	3.6816+01	3.9603+00	1.5175+00
2.2	1.6946+00	7.6202+00	9.3149+00	3.5347+01	4.1600+00	1.4301+00

T= 14800

LOG D	N2	N2+	N+	N++	N	E
-7.0	4.1100-19	1.3800-14	4.5000-01	3.3400-02	1.5400-05	5.1700-01
-6.8	1.6700-18	3.6000-14	4.6600-01	2.2300-02	2.4800-05	5.1100-01
-6.6	6.7000-18	9.2800-14	4.7800-01	1.4700-02	3.9600-05	5.0700-01
-6.4	2.6800-17	2.3700-13	4.8600-01	9.5100-03	6.3100-05	5.0500-01
-6.2	1.0700-16	6.0100-13	4.9100-01	6.1100-03	1.0000-04	5.0300-01
-6.0	4.2700-16	1.5200-12	4.9400-01	3.9000-03	1.5900-04	5.0200-01
-5.8	1.7000-15	3.8300-12	4.9600-01	2.4800-03	2.5300-04	5.0100-01
-5.6	6.7600-15	9.6400-12	4.9700-01	1.5700-03	4.0000-04	5.0100-01
-5.4	2.6800-14	2.4200-11	4.9800-01	9.9700-04	6.3400-04	5.0000-01
-5.2	1.0700-13	6.0700-11	4.9900-01	6.3100-04	1.0000-03	5.0000-01
-5.0	4.2200-13	1.5200-10	4.9900-01	4.0000-04	1.5900-03	4.9900-01
-4.8	1.6600-12	3.8000-10	4.9800-01	2.5300-04	2.5100-03	4.9900-01
-4.6	6.5400-12	9.4600-10	4.9800-01	1.6100-04	3.9500-03	4.9800-01
-4.4	2.5500-11	2.3500-09	4.9700-01	1.0200-04	6.2100-03	4.9700-01
-4.2	9.8800-11	5.7800-09	4.9500-01	6.4800-05	9.7100-03	4.9500-01
-4.0	3.7700-10	1.4100-08	4.9200-01	4.1400-05	1.5100-02	4.9200-01
-3.8	1.4100-09	3.3900-08	4.8800-01	2.6500-05	2.3300-02	4.8800-01
-3.6	5.1000-09	7.9700-08	4.8200-01	1.7100-05	3.5400-02	4.8200-01
-3.4	1.7700-08	1.8200-07	4.7400-01	1.1100-05	5.2900-02	4.7400-01
-3.2	5.8700-08	4.0200-07	4.6100-01	7.2200-06	7.7300-02	4.6100-01
-3.0	1.8200-07	8.4800-07	4.4500-01	4.7600-06	1.1000-01	4.4500-01
-2.8	5.2900-07	1.7000-06	4.2400-01	3.1700-06	1.5100-01	4.2400-01
-2.6	1.4200-06	3.2400-06	3.9900-01	2.1300-06	2.0200-01	3.9900-01
-2.4	3.5700-06	5.8400-06	3.7000-01	1.4400-06	2.6000-01	3.7000-01
-2.2	8.3500-06	1.0000-05	3.3800-01	9.7400-07	3.2300-01	3.3800-01
-2.0	1.8400-05	1.6500-05	3.0500-01	6.6300-07	3.9000-01	3.0500-01
-1.8	3.8300-05	2.5900-05	2.7100-01	4.5200-07	4.5900-01	2.7100-01
-1.6	7.6100-05	3.9500-05	2.3700-01	3.0800-07	5.2500-01	2.3700-01
-1.4	1.4500-04	5.8300-05	2.0600-01	2.1000-07	5.8900-01	2.0600-01
-1.2	2.6900-04	8.3900-05	1.7600-01	1.4300-07	6.4700-01	1.7600-01
-1.0	4.8300-04	1.1800-04	1.5000-01	9.7600-08	7.0000-01	1.5000-01
-.8	8.4700-04	1.6400-04	1.2600-01	6.6700-08	7.4700-01	1.2600-01
-.6	1.4600-03	2.2400-04	1.0500-01	4.5600-08	7.8700-01	1.0600-01
-.4	2.4600-03	3.0200-04	8.7900-02	3.1400-08	8.2100-01	8.8200-02
-.2	4.1000-03	4.0400-04	7.2900-02	2.1700-08	8.4900-01	7.3300-02
.0	6.7400-03	5.3500-04	6.0400-02	1.5100-08	8.7100-01	6.0900-02
.2	1.0900-02	7.0400-04	4.9900-02	1.0600-08	8.8800-01	5.0600-02
.4	1.7500-02	9.1900-04	4.1200-02	7.5600-09	8.9800-01	4.2100-02
.6	2.7500-02	1.1900-03	3.4000-02	5.4600-09	9.0200-01	3.5200-02
.8	4.2500-02	1.5200-03	2.8100-02	4.0200-09	8.9800-01	2.9600-02
1.0	6.4300-02	1.9300-03	2.3200-02	3.0200-09	8.8500-01	2.5200-02
1.2	9.4500-02	2.4100-03	1.9200-02	2.3300-09	8.6200-01	2.1600-02
1.4	1.3500-01	2.9700-03	1.5900-02	1.8500-09	8.2800-01	1.8900-02
1.6	1.8600-01	3.6300-03	1.3300-02	1.5400-09	7.8100-01	1.6900-02
1.8	2.4700-01	4.4200-03	1.1200-02	1.3700-09	7.2200-01	1.5600-02
2.0	3.1900-01	5.5100-03	9.6100-03	1.3700-09	6.5100-01	1.5100-02
2.2	3.9800-01	7.3100-03	8.7000-03	1.7300-09	5.7000-01	1.6000-02

T= 14800

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.1378+00	4.0257+01	4.4395+01	1.3247+02	-4.6494+00	4.1382+00
-6.8	4.0909+00	3.9107+01	4.3198+01	1.2943+02	-4.4543+00	4.0913+00
-6.6	4.0589+00	3.8324+01	4.2383+01	1.2677+02	-4.2577+00	4.0594+00
-6.4	4.0375+00	3.7803+01	4.1841+01	1.2439+02	-4.0600+00	4.0382+00
-6.2	4.0234+00	3.7461+01	4.1485+01	1.2219+02	-3.8615+00	4.0242+00
-6.0	4.0141+00	3.7239+01	4.1253+01	1.2011+02	-3.6626+00	4.0150+00
-5.8	4.0078+00	3.7093+01	4.1101+01	1.1812+02	-3.4632+00	4.0090+00
-5.6	4.0032+00	3.6996+01	4.0999+01	1.1618+02	-3.2637+00	4.0047+00
-5.4	3.9996+00	3.6926+01	4.0926+01	1.1427+02	-3.0641+00	4.0015+00
-5.2	3.9962+00	3.6870+01	4.0867+01	1.1237+02	-2.8645+00	3.9985+00
-5.0	3.9923+00	3.6817+01	4.0809+01	1.1048+02	-2.6649+00	3.9953+00
-4.8	3.9874+00	3.6755+01	4.0742+01	1.0858+02	-2.4655+00	3.9910+00
-4.6	3.9803+00	3.6672+01	4.0652+01	1.0666+02	-2.2662+00	3.9849+00
-4.4	3.9700+00	3.6551+01	4.0521+01	1.0471+02	-2.0673+00	3.9758+00
-4.2	3.9546+00	3.6372+01	4.0327+01	1.0271+02	-1.8690+00	3.9618+00
-4.0	3.9318+00	3.6103+01	4.0035+01	1.0062+02	-1.6715+00	3.9407+00
-3.8	3.8982+00	3.5705+01	3.9603+01	9.8418+01	-1.4753+00	3.9092+00
-3.6	3.8501+00	3.5127+01	3.8977+01	9.6056+01	-1.2807+00	3.8633+00
-3.4	3.7832+00	3.4320+01	3.8103+01	9.3491+01	-1.0883+00	3.7990+00
-3.2	3.6944+00	3.3242+01	3.6936+01	9.0690+01	-8.9860-01	3.7129+00
-3.0	3.5827+00	3.1879+01	3.5462+01	8.7650+01	-7.1193-01	3.6038+00
-2.8	3.4505+00	3.0258+01	3.3709+01	8.4409+01	-5.2825-01	3.4740+00
-2.6	3.3035+00	2.8448+01	3.1751+01	8.1043+01	-3.4716-01	3.3288+00
-2.4	3.1493+00	2.6543+01	2.9692+01	7.7652+01	-1.6793-01	3.1757+00
-2.2	2.9958+00	2.4641+01	2.7637+01	7.4335+01	1.0369-02	3.0228+00
-2.0	2.8497+00	2.2826+01	2.5675+01	7.1174+01	1.8866-01	2.8767+00
-1.8	2.7157+00	2.1156+01	2.3872+01	6.8224+01	3.6775-01	2.7422+00
-1.6	2.5964+00	1.9665+01	2.2261+01	6.5510+01	5.4823-01	2.6219+00
-1.4	2.4925+00	1.8364+01	2.0857+01	6.3038+01	7.3050-01	2.5169+00
-1.2	2.4037+00	1.7249+01	1.9653+01	6.0796+01	9.1475-01	2.4267+00
-1.0	2.3288+00	1.6306+01	1.8635+01	5.8764+01	1.1010+00	2.3503+00
-.8	2.2661+00	1.5516+01	1.7782+01	5.6917+01	1.2891+00	2.2861+00
-.6	2.2138+00	1.4857+01	1.7071+01	5.5227+01	1.4790+00	2.2322+00
-.4	2.1701+00	1.4307+01	1.6477+01	5.3667+01	1.6703+00	2.1867+00
-.2	2.1330+00	1.3844+01	1.5977+01	5.2213+01	1.8629+00	2.1478+00
.0	2.1006+00	1.3445+01	1.5545+01	5.0840+01	2.0562+00	2.1133+00
.2	2.0709+00	1.3088+01	1.5159+01	4.9522+01	2.2500+00	2.0811+00
.4	2.0418+00	1.2748+01	1.4790+01	4.8236+01	2.4439+00	2.0486+00
.6	2.0108+00	1.2401+01	1.4412+01	4.6955+01	2.6372+00	2.0131+00
.8	1.9758+00	1.2019+01	1.3995+01	4.5655+01	2.8296+00	1.9715+00
1.0	1.9349+00	1.1579+01	1.3514+01	4.4314+01	3.0205+00	1.9212+00
1.2	1.8875+00	1.1062+01	1.2950+01	4.2917+01	3.2097+00	1.8600+00
1.4	1.8352+00	1.0465+01	1.2301+01	4.1463+01	3.3976+00	1.7878+00
1.6	1.7824+00	9.8009+00	1.1583+01	3.9965+01	3.5849+00	1.7060+00
1.8	1.7362+00	9.0939+00	1.0830+01	3.8449+01	3.7735+00	1.6180+00
2.0	1.7062+00	8.3777+00	1.0084+01	3.6941+01	3.9659+00	1.5278+00
2.2	1.7042+00	7.6888+00	9.3930+00	3.5468+01	4.1654+00	1.4398+00

T= 14900

LOG D	N2	N2+	N+	N++	N	E
-7.0	3.2700-19	1.1900-14	4.4200-01	3.8300-02	1.4100-05	5.1900-01
-6.8	1.3300-18	3.1300-14	4.6100-01	2.5900-02	2.2700-05	5.1300-01
-6.6	5.3600-18	8.1100-14	4.7400-01	1.7100-02	3.6300-05	5.0900-01
-6.4	2.1500-17	2.0800-13	4.8300-01	1.1100-02	5.7900-05	5.0600-01
-6.2	8.5800-17	5.2800-13	4.8900-01	7.1600-03	9.2200-05	5.0400-01
-6.0	3.4200-16	1.3400-12	4.9300-01	4.5800-03	1.4600-04	5.0200-01
-5.8	1.3600-15	3.3700-12	4.9600-01	2.9200-03	2.3200-04	5.0100-01
-5.6	5.4200-15	8.4800-12	4.9700-01	1.8500-03	3.6800-04	5.0100-01
-5.4	2.1500-14	2.1300-11	4.9800-01	1.1700-03	5.8400-04	5.0000-01
-5.2	8.5500-14	5.3500-11	4.9800-01	7.4400-04	9.2400-04	5.0000-01
-5.0	3.3900-13	1.3400-10	4.9900-01	4.7100-04	1.4600-03	5.0000-01
-4.8	1.3400-12	3.3500-10	4.9800-01	2.9800-04	2.3100-03	4.9900-01
-4.6	5.2600-12	8.3400-10	4.9800-01	1.8900-04	3.6400-03	4.9800-01
-4.4	2.0600-11	2.0700-09	4.9700-01	1.2000-04	5.7200-03	4.9700-01
-4.2	7.9700-11	5.1100-09	4.9500-01	7.6400-05	8.9600-03	4.9600-01
-4.0	3.0500-10	1.2500-08	4.9300-01	4.8700-05	1.3900-02	4.9300-01
-3.8	1.1400-09	3.0100-08	4.8900-01	3.1200-05	2.1500-02	4.8900-01
-3.6	4.1600-09	7.1100-08	4.8400-01	2.0000-05	3.2800-02	4.8400-01
-3.4	1.4600-08	1.6400-07	4.7500-01	1.3000-05	4.9200-02	4.7500-01
-3.2	4.8800-08	3.6300-07	4.6400-01	8.4700-06	7.2300-02	4.6400-01
-3.0	1.5400-07	7.7300-07	4.4800-01	5.5800-06	1.0300-01	4.4800-01
-2.8	4.5100-07	1.5600-06	4.2800-01	3.7100-06	1.4300-01	4.2800-01
-2.6	1.2300-06	3.0100-06	4.0400-01	2.4900-06	1.9200-01	4.0400-01
-2.4	3.1200-06	5.4800-06	3.7600-01	1.6800-06	2.4800-01	3.7600-01
-2.2	7.3900-06	9.4900-06	3.4400-01	1.1400-06	3.1100-01	3.4400-01
-2.0	1.6400-05	1.5700-05	3.1100-01	7.7500-07	3.7800-01	3.1100-01
-1.8	3.4600-05	2.4900-05	2.7700-01	5.2900-07	4.4600-01	2.7700-01
-1.6	6.9300-05	3.8200-05	2.4400-01	3.6100-07	5.1300-01	2.4400-01
-1.4	1.3300-04	5.6700-05	2.1100-01	2.4600-07	5.7700-01	2.1100-01
-1.2	2.4800-04	8.2000-05	1.8200-01	1.6800-07	6.3600-01	1.8200-01
-1.0	4.4800-04	1.1600-04	1.5400-01	1.1500-07	6.9000-01	1.5500-01
-.8	7.8800-04	1.6100-04	1.3000-01	7.8500-08	7.3800-01	1.3100-01
-.6	1.3600-03	2.2100-04	1.0900-01	5.3800-08	7.8000-01	1.1000-01
-.4	2.3100-03	2.9900-04	9.1200-02	3.7100-08	8.1500-01	9.1500-02
-.2	3.8500-03	4.0000-04	7.5800-02	2.5700-08	8.4400-01	7.6200-02
.0	6.3400-03	5.3200-04	6.2800-02	1.7900-08	8.6700-01	6.3300-02
.2	1.0300-02	7.0100-04	5.2000-02	1.2600-08	8.8400-01	5.2700-02
.4	1.6500-02	9.1700-04	4.3000-02	9.0000-09	8.9600-01	4.3900-02
.6	2.6100-02	1.1900-03	3.5500-02	6.5200-09	9.0100-01	3.6700-02
.8	4.0400-02	1.5300-03	2.9400-02	4.8000-09	8.9800-01	3.0900-02
1.0	6.1300-02	1.9400-03	2.4300-02	3.6200-09	8.8600-01	2.6300-02
1.2	9.0400-02	2.4400-03	2.0200-02	2.8000-09	8.6400-01	2.2600-02
1.4	1.2900-01	3.0200-03	1.6800-02	2.2500-09	8.3100-01	1.9800-02
1.6	1.7900-01	3.7100-03	1.4000-02	1.8900-09	7.8500-01	1.7700-02
1.8	2.4000-01	4.5500-03	1.1800-02	1.7000-09	7.2700-01	1.6400-02
2.0	3.1000-01	5.7100-03	1.0200-02	1.7200-09	6.5800-01	1.5900-02
2.2	3.8900-01	7.6500-03	9.3500-03	2.2400-09	5.7700-01	1.7000-02

T= 14900

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.1591+00	4.0553+01	4.4712+01	1.3304+02	-4.6442+00	4.1595+00
-6.8	4.1057+00	3.9252+01	4.3357+01	1.2984+02	-4.4498+00	4.1061+00
-6.6	4.0689+00	3.8356+01	4.2425+01	1.2706+02	-4.2537+00	4.0694+00
-6.4	4.0442+00	3.7756+01	4.1800+01	1.2459+02	-4.0564+00	4.0448+00
-6.2	4.0277+00	3.7360+01	4.1388+01	1.2234+02	-3.8582+00	4.0285+00
-6.0	4.0169+00	3.7102+01	4.1119+01	1.2023+02	-3.6593+00	4.0178+00
-5.8	4.0096+00	3.6934+01	4.0943+01	1.1821+02	-3.4601+00	4.0108+00
-5.6	4.0045+00	3.6822+01	4.0826+01	1.1625+02	-3.2607+00	4.0060+00
-5.4	4.0005+00	3.6743+01	4.0744+01	1.1433+02	-3.0611+00	4.0024+00
-5.2	3.9970+00	3.6683+01	4.0680+01	1.1243+02	-2.8615+00	3.9993+00
-5.0	3.9932+00	3.6628+01	4.0621+01	1.1054+02	-2.6619+00	3.9961+00
-4.8	3.9884+00	3.6568+01	4.0556+01	1.0864+02	-2.4624+00	3.9920+00
-4.6	3.9817+00	3.6489+01	4.0471+01	1.0672+02	-2.2631+00	3.9863+00
-4.4	3.9720+00	3.6377+01	4.0349+01	1.0478+02	-2.0642+00	3.9778+00
-4.2	3.9577+00	3.6211+01	4.0168+01	1.0279+02	-1.8658+00	3.9648+00
-4.0	3.9364+00	3.5962+01	3.9898+01	1.0072+02	-1.6681+00	3.9452+00
-3.8	3.9050+00	3.5593+01	3.9498+01	9.8546+01	-1.4716+00	3.9159+00
-3.6	3.8597+00	3.5055+01	3.8915+01	9.6220+01	-1.2767+00	3.8729+00
-3.4	3.7965+00	3.4298+01	3.8095+01	9.3700+01	-1.0838+00	3.8123+00
-3.2	3.7118+00	3.3278+01	3.6990+01	9.0950+01	-8.9363-01	3.7304+00
-3.0	3.6042+00	3.1975+01	3.5580+01	8.7961+01	-7.0640-01	3.6256+00
-2.8	3.4755+00	3.0409+01	3.3884+01	8.4764+01	-5.2220-01	3.4993+00
-2.6	3.3307+00	2.8639+01	3.1970+01	8.1426+01	-3.4068-01	3.3564+00
-2.4	3.1772+00	2.6757+01	2.9934+01	7.8046+01	-1.6117-01	3.2044+00
-2.2	3.0231+00	2.4861+01	2.7884+01	7.4722+01	1.7241-02	3.0510+00
-2.0	2.8754+00	2.3038+01	2.5913+01	7.1541+01	1.9548-01	2.9033+00
-1.8	2.7390+00	2.1350+01	2.4089+01	6.8561+01	3.7438-01	2.7665+00
-1.6	2.6170+00	1.9835+01	2.2452+01	6.5813+01	5.5459-01	2.6436+00
-1.4	2.5104+00	1.8508+01	2.1019+01	6.3307+01	7.3652-01	2.5358+00
-1.2	2.4189+00	1.7368+01	1.9787+01	6.1031+01	9.2041-01	2.4430+00
-1.0	2.3416+00	1.6401+01	1.8743+01	5.8969+01	1.1063+00	2.3641+00
-.8	2.2768+00	1.5589+01	1.7866+01	5.7095+01	1.2941+00	2.2978+00
-.6	2.2228+00	1.4912+01	1.7135+01	5.5381+01	1.4837+00	2.2420+00
-.4	2.1776+00	1.4347+01	1.6524+01	5.3803+01	1.6748+00	2.1951+00
-.2	2.1393+00	1.3871+01	1.6010+01	5.2334+01	1.8671+00	2.1550+00
.0	2.1062+00	1.3463+01	1.5569+01	5.0948+01	2.0603+00	2.1197+00
.2	2.0760+00	1.3100+01	1.5176+01	4.9623+01	2.2540+00	2.0869+00
.4	2.0468+00	1.2759+01	1.4805+01	4.8332+01	2.4479+00	2.0543+00
.6	2.0161+00	1.2413+01	1.4429+01	4.7051+01	2.6413+00	2.0191+00
.8	1.9817+00	1.2037+01	1.4019+01	4.5754+01	2.8338+00	1.9782+00
1.0	1.9418+00	1.1605+01	1.3547+01	4.4419+01	3.0250+00	1.9287+00
1.2	1.8956+00	1.1100+01	1.2996+01	4.3029+01	3.2145+00	1.8687+00
1.4	1.8445+00	1.0515+01	1.2359+01	4.1583+01	3.4027+00	1.7975+00
1.6	1.7925+00	9.8599+00	1.1652+01	4.0090+01	3.5902+00	1.7165+00
1.8	1.7467+00	9.1595+00	1.0906+01	3.8575+01	3.7790+00	1.6287+00
2.0	1.7166+00	8.4463+00	1.0163+01	3.7066+01	3.9715+00	1.5382+00
2.2	1.7139+00	7.7582+00	9.4721+00	3.5589+01	4.1708+00	1.4497+00

T= 15000

LOG D	N2	N2+	N*	N++	N	E
-7.0	2.6100-19	1.0300-14	4.3400-01	4.3800-02	1.2900-05	5.2200-01
-6.8	1.0600-18	2.7300-14	4.5500-01	2.9800-02	2.0800-05	5.1500-01
-6.6	4.2900-18	7.0900-14	4.7000-01	1.9800-02	3.3300-05	5.1000-01
-6.4	1.7200-17	1.8200-13	4.8100-01	1.3000-02	5.3300-05	5.0600-01
-6.2	6.9000-17	4.6400-13	4.8700-01	8.3800-03	8.4800-05	5.0400-01
-6.0	2.7500-16	1.1800-12	4.9200-01	5.3700-03	1.3500-04	5.0300-01
-5.8	1.1000-15	2.9700-12	4.9500-01	3.4200-03	2.1400-04	5.0200-01
-5.6	4.3600-15	7.4700-12	4.9700-01	2.1800-03	3.3900-04	5.0100-01
-5.4	1.7300-14	1.8800-11	4.9800-01	1.3800-03	5.3700-04	5.0000-01
-5.2	6.8800-14	4.7200-11	4.9800-01	8.7500-04	8.5100-04	5.0000-01
-5.0	2.7300-13	1.1800-10	4.9800-01	5.5400-04	1.3500-03	5.0000-01
-4.8	1.0800-12	2.9600-10	4.9800-01	3.5100-04	2.1300-03	4.9900-01
-4.6	4.2400-12	7.3700-10	4.9800-01	2.2200-04	3.3500-03	4.9800-01
-4.4	1.6600-11	1.8300-09	4.9700-01	1.4100-04	5.2700-03	4.9700-01
-4.2	6.4400-11	4.5200-09	4.9600-01	8.9800-05	8.2700-03	4.9600-01
-4.0	2.4700-10	1.1100-08	4.9300-01	5.7200-05	1.2900-02	4.9400-01
-3.8	9.3000-10	2.6800-08	4.9000-01	3.6600-05	1.9900-02	4.9000-01
-3.6	3.4100-09	6.3500-08	4.8500-01	2.3500-05	3.0500-02	4.8500-01
-3.4	1.2100-08	1.4700-07	4.7700-01	1.5200-05	4.5800-02	4.7700-01
-3.2	4.0700-08	3.2800-07	4.6600-01	9.9200-06	6.7600-02	4.6600-01
-3.0	1.2900-07	7.0400-07	4.5100-01	6.5300-06	9.7000-02	4.5100-01
-2.8	3.8500-07	1.4400-06	4.3200-01	4.3300-06	1.3500-01	4.3200-01
-2.6	1.0600-06	2.7900-06	4.0900-01	2.9000-06	1.8200-01	4.0900-01
-2.4	2.7300-06	5.1400-06	3.8100-01	1.9600-06	2.3700-01	3.8100-01
-2.2	6.5500-06	8.9800-06	3.5000-01	1.3300-06	2.9900-01	3.5000-01
-2.0	1.4700-05	1.5000-05	3.1700-01	9.0500-07	3.6500-01	3.1700-01
-1.8	3.1300-05	2.3900-05	2.8300-01	6.1800-07	4.3300-01	2.8300-01
-1.6	6.3200-05	3.6900-05	2.5000-01	4.2200-07	5.0000-01	2.5000-01
-1.4	1.2200-04	5.5100-05	2.1700-01	2.8800-07	5.6500-01	2.1700-01
-1.2	2.2900-04	8.0100-05	1.8700-01	1.9700-07	6.2500-01	1.8700-01
-1.0	4.1500-04	1.1400-04	1.5900-01	1.3500-07	6.8000-01	1.6000-01
-.8	7.3400-04	1.5900-04	1.3500-01	9.2300-08	7.2900-01	1.3500-01
-.6	1.2700-03	2.1800-04	1.1300-01	6.3400-08	7.7200-01	1.1300-01
-.4	2.1600-03	2.9600-04	9.4600-02	4.3700-08	8.0800-01	9.4900-02
-.2	3.6200-03	3.9700-04	7.8700-02	3.0300-08	8.3800-01	7.9100-02
.0	5.9700-03	5.2900-04	6.5300-02	2.1200-08	8.6200-01	6.5800-02
.2	9.7200-03	6.9800-04	5.4100-02	1.4900-08	8.8100-01	5.4800-02
.4	1.5600-02	9.1600-04	4.4800-02	1.0700-08	8.9300-01	4.5700-02
.6	2.4700-02	1.1900-03	3.7100-02	7.7500-09	8.9900-01	3.8300-02
.8	3.8400-02	1.5400-03	3.0700-02	5.7300-09	8.9700-01	3.2200-02
1.0	5.8400-02	1.9600-03	2.5500-02	4.3400-09	8.8700-01	2.7400-02
1.2	8.6500-02	2.4700-03	2.1100-02	3.3700-09	8.6600-01	2.3600-02
1.4	1.2400-01	3.0700-03	1.7600-02	2.7200-09	8.3400-01	2.0700-02
1.6	1.7300-01	3.7900-03	1.4800-02	2.3000-09	7.9000-01	1.8600-02
1.8	2.3300-01	4.6800-03	1.2500-02	2.0900-09	7.3300-01	1.7200-02
2.0	3.0200-01	5.9100-03	1.0900-02	2.1600-09	6.6400-01	1.6800-02
2.2	3.8000-01	8.0200-03	1.0000-02	2.9100-09	5.8400-01	1.8100-02

T= 15000

LOG D	Z	E/RT	H/RT	S/R	LOG P	Z*
-7.0	4.1828+00	4.0905+01	4.5087+01	1.3367+02	-4.6388+00	4.1832+00
-6.8	4.1224+00	3.9441+01	4.3563+01	1.3029+02	-4.4452+00	4.1228+00
-6.6	4.0803+00	3.8422+01	4.2502+01	1.2738+02	-4.2496+00	4.0803+00
-6.4	4.0517+00	3.7733+01	4.1784+01	1.2482+02	-4.0527+00	4.0523+00
-6.2	4.0327+00	3.7276+01	4.1309+01	1.2250+02	-3.8547+00	4.0335+00
-6.0	4.0201+00	3.6978+01	4.0998+01	1.2035+02	-3.6561+00	4.0211+00
-5.8	4.0117+00	3.6783+01	4.0794+01	1.1831+02	-3.4570+00	4.0129+00
-5.6	4.0059+00	3.6654+01	4.0660+01	1.1633+02	-3.2576+00	4.0074+00
-5.4	4.0016+00	3.6566+01	4.0567+01	1.1440+02	-3.0581+00	4.0034+00
-5.2	3.9978+00	3.6500+01	4.0498+01	1.1249+02	-2.8585+00	4.0001+00
-5.0	3.9940+00	3.6443+01	4.0437+01	1.1060+02	-2.6589+00	3.9969+00
-4.8	3.9893+00	3.6383+01	4.0372+01	1.0870+02	-2.4594+00	3.9929+00
-4.6	3.9830+00	3.6308+01	4.0291+01	1.0679+02	-2.2601+00	3.9875+00
-4.4	3.9739+00	3.6203+01	4.0177+01	1.0485+02	-2.0611+00	3.9796+00
-4.2	3.9605+00	3.6049+01	4.0009+01	1.0287+02	-1.8626+00	3.9676+00
-4.0	3.9406+00	3.5818+01	3.9759+01	1.0082+02	-1.6647+00	3.9494+00
-3.8	3.9112+00	3.5476+01	3.9387+01	9.8667+01	-1.4680+00	3.9220+00
-3.6	3.8687+00	3.4975+01	3.8844+01	9.6374+01	-1.2727+00	3.8819+00
-3.4	3.8089+00	3.4266+01	3.8075+01	9.3897+01	-1.0795+00	3.8248+00
-3.2	3.7282+00	3.3302+01	3.7030+01	9.1196+01	-8.8881-01	3.7469+00
-3.0	3.6247+00	3.2058+01	3.5683+01	8.8258+01	-7.0103-01	3.6463+00
-2.8	3.4995+00	3.0546+01	3.4046+01	8.5105+01	-5.1630-01	3.5237+00
-2.6	3.3572+00	2.8819+01	3.2176+01	8.1799+01	-3.3434-01	3.3835+00
-2.4	3.2048+00	2.6963+01	3.0168+01	7.8432+01	-1.5451-01	3.2326+00
-2.2	3.0503+00	2.5076+01	2.8126+01	7.5104+01	2.4033-02	3.0790+00
-2.0	2.9011+00	2.3247+01	2.6148+01	7.1905+01	2.0225-01	2.9300+00
-1.8	2.7625+00	2.1543+01	2.4306+01	6.8898+01	3.8099-01	2.7910+00
-1.6	2.6378+00	2.0006+01	2.2644+01	6.6118+01	5.6093-01	2.6655+00
-1.4	2.5284+00	1.8654+01	2.1183+01	6.3577+01	7.4254-01	2.5550+00
-1.2	2.4344+00	1.7488+01	1.9923+01	6.1269+01	9.2608-01	2.4595+00
-1.0	2.3546+00	1.6498+01	1.8852+01	5.9176+01	1.1116+00	2.3783+00
-.8	2.2877+00	1.5665+01	1.7952+01	5.7274+01	1.2991+00	2.3097+00
-.6	2.2318+00	1.4969+01	1.7201+01	5.5538+01	1.4884+00	2.2521+00
-.4	2.1852+00	1.4388+01	1.6573+01	5.3940+01	1.6792+00	2.2037+00
-.2	2.1458+00	1.3900+01	1.6045+01	5.2455+01	1.8713+00	2.1624+00
.0	2.1118+00	1.3482+01	1.5594+01	5.1058+01	2.0643+00	2.1262+00
.2	2.0811+00	1.3113+01	1.5195+01	4.9723+01	2.2580+00	2.0929+00
.4	2.0517+00	1.2769+01	1.4821+01	4.8428+01	2.4518+00	2.0601+00
.6	2.0213+00	1.2425+01	1.4446+01	4.7146+01	2.6453+00	2.0250+00
.8	1.9875+00	1.2054+01	1.4041+01	4.5851+01	2.8380+00	1.9847+00
1.0	1.9485+00	1.1631+01	1.3579+01	4.4522+01	3.0294+00	1.9362+00
1.2	1.9034+00	1.1136+01	1.3039+01	4.3140+01	3.2192+00	1.8772+00
1.4	1.8534+00	1.0562+01	1.2416+01	4.1700+01	3.4077+00	1.8071+00
1.6	1.8024+00	9.9171+00	1.1719+01	4.0214+01	3.5955+00	1.7267+00
1.8	1.7570+00	9.2236+00	1.0981+01	3.8701+01	3.7845+00	1.6392+00
2.0	1.7269+00	8.5140+00	1.0241+01	3.7190+01	3.9769+00	1.5486+00
2.2	1.7235+00	7.8273+00	9.5508+00	3.5710+01	4.1761+00	1.4596+00

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		2b GROUP N/A	
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4 DESCRIPTIVE NOTES (Type of report and inclusive dates) N/A			
5 AUTHOR(S) (Last name, first name, initial) Joseph Hilsenrath and Max Klein, National Bureau of Standards			
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13 ABSTRACT Tables for the thermodynamic properties for nitrogen are presented which take into account the effect of dissociation and ionization and the limiting-law Debye-Hückel and second virial cor- rections, upon the thermodynamic properties and the equilibrium com- positions. Values are tabulated from 1600°K to 15,000°K at close spacings in the logarithm of the density [ $\log_{10} \rho / \rho_0 = -7.0(0.2) 2.2$ ] for the compressibility factor $Z = PV/RT$ ; the dimensionless functions for: internal energy, $E/RT$ ; enthalpy, $H/RT$ ; entropy, $S/R$ ; $\log_{10} P$ (atm) and $Z^* = \sum C_i$ and the mole fractions of the species in chemical equilibrium. The underlying equations and the input data are dis- cussed briefly. The effects of the real gas corrections on the equi- librium properties are illustrated graphically. The equilibrium com- position is given for selected temperatures over the tabulated density range. The wide range of temperatures and densities over which the thermodynamic properties have been tabulated make the tables useful in a variety of engineering design and test programs, and in scien- tific research and development.			



14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
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thermodynamic properties						
chemical composition						
chemical equilibrium						
second virial corrections						
tables						
dissociation						
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